

South Carolina Department of Health and Environmental Control

Division of Procurement Services

Invitation for Bid

Solicitation No.: IFB-31016-11/28/06-EMW

Date Issued: 10/24/06

Procurement Officer: E. Madison Winslow

E. The die 25-768

Phone No.: (803) 898-3487

E-mail Address: winsloem@dhec.sc.gov

DESCRIPTION: Corrective action for petroleum releases - UST Permit Numbers 14548 and 17355, Walterboro, S

The Term "Offer" Means Your "Bid" or "Proposal"

Page 1 of 80

SUBMIT OFFER BY (Opening Date/Time): November 28, 2006/2:30 pm E.T.

NUMBER OF COPIES TO BE SUBMITTED: One (1) original

QUESTIONS MUST BE RECEIVED BY: November 15, 2006/4:00 p.m. E.T.

See Specific Requirements, Number 2

SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

	<u></u>
MAILING ADDRESS:	PHYSICAL ADDRESS:
SC DHEC	SC DHEC
Division of Procurement Services	Division of Procurement Services
Bureau of Business Management	Bureau of Business Management
2600 Bull Street	2600 Bull Street, Room 1200 – Aycock Bldg.
Columbia, S.C. 29201	Columbia, S. C. 29201

Offers Must Be Sealed: See provision entitled "Submitting Your Offer"

AWARD &	Award will be posted on or after	Award will be posted on or after December 4 , 2006. The award, this solicitation, and any amendments will					
AMENDMENTS	be posted at the following web ac	ldress: <u>b</u>	<u> http://www.scdhec.r</u>	net/procurement.			
Von must submit a sign	ad a compact this forms with	- СС Т		1 1 11 11 1			
town as the colinitation	Voy names to held Con	oner. E	sy submitting a bi	d or proposal, you agree to be bound by the			
date.	. You agree to hold your offer	open i	or a minimum of	thirty (30) calendar days after the opening			
NAME OF OFFEROR	(Full legal name of busine	OFFEROR'S TYPE OF ENTITY: (Check one)					
				☐ Sole Proprietorship			
AUTHORIZED SIGNA	TURE			□ Partnership			
				•			
	to submit binding offer to enter contract on b	ehalf of C	Offeror named above.)	☐ Corporation (tax-exempt)			
TITLE	(Business titl	e of perso	n signing above)	☐ Corporate entity (not tax-exempt)			
	<u> </u>			☐ Government entity (federal, state, or local)			
PRINTED NAME	(Printed name of person signing above)	DATE	. □ Other			
				(See provision entitled "Signing Your Offer")			
Instructions regarding of	feror's name: Any award issued	will b	e issued to, and	the contract will be formed with, the entity			
identified as the offeror a	above. An offer may be submitte	d by or	nly one legal entit	y. The entity named as the offeror must be a			
single and distinct legal e	entity. Do not use the name of a b	oranch o	office or a divisior	of a larger entity if the branch or division is			
not a separate legal entity,	, i.e., a separate corporation, partr	ership,	sole proprietorship	o, etc.			
OFFEROR'S HOME OF	FICE ADDRESS		(Addre	ess for the offeror's principal place of business)			
			(ov 10, and offerers principal place of business)			
CITY	· · · · · · · · · · · · · · · · · · ·	STAT	<u> </u>	ZIP CODE			
		~	. 2	ZH CODE			
PHONE	FACSIMILE		E-MAIL				
STATE OF INCORPOR	ATION		(If offero	or is a corporation, identify the state of Incorporation)			
TAXPAYER IDENTIFICATION NO. (See provision entitled Taxpayer Identification Number)							

I. SCOPE OF WORK

A. **DEFINITIONS:**

For the purposes of this contract the following terms and definitions shall apply:

- 1. <u>Catastrophic Occurrence</u>: an event (e.g., hurricane) that results in a declared state of emergency and directly and substantially affects the Contractor's operations at a site.
- 2. <u>Chemicals of Concern</u>: Specific constituents that are identified for monitoring and corrective action.
- 3. <u>Corrective Action Completion Time</u>: the time in months, estimated by the Contractor, necessary to reduce concentrations of chemicals of concern to site-specific target levels, verify attainment of the goals, and remove or properly abandon assessment and corrective action items (wells, treatment lines, etc.).
- 4. Corrective Action Plan: A document outlining and detailing proposed corrective actions.
- 5. <u>Corrective Action System Startup Date</u>: the date on which the Contractor initiates full time treatment operations or initiates injection into or extraction from the subsurface.
- 6. <u>Site Incentive Period</u>: the period of time in months established by the SCDHEC during which the Contractor must achieve the 100% Concentration Reduction Goal in order to qualify for the Early Completion Incentive.

B. SOLICITATION STATEMENT

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is seeking services to perform active corrective action of petroleum releases at regulated underground storage tank sites in accordance with defined remediation goals. The objective is to prevent significant further migration and reduce the levels of chemicals of concern (CoC) in the soil and groundwater to or below defined site-specific target levels (SSTLs). All offerors must be South Carolina Certified Class I Site Rehabilitation Contractors.

C. SCHEDULE OF DELIVERABLES

The following table summarizes the deadlines for deliverables associated with this contract.

DELIVERABLE DUE	DEADLINE
Questions	By 4:00 p.m. ET 11/15/06
Sealed Bids	By 2:30 p.m. ET 11/28/06
Corrective Action Plan	30 days from date of award
Performance Bond	30 days from date of award
Initial Monitoring Report	45 days from date of award
CAP Implementation	30 days from Notice to Proceed
System Start Up	15 days from receipt of Permit to Operate and CAP
	Notice to Proceed
Notify Project Manager of Sampling	At least two (2) weeks prior to the event
Corrective Action Monitoring Report	Quarterly from date of start up
Abandon Monitoring Wells and Corrective	Within 60 days from notice by SCDHEC
Action System	

D. SITE SPECIFIC INFORMATION

The scope of work defined in this solicitation is to be implemented at:

UST Permit #	Facility Name	Site Address	Date Release	Appendix #
	·		Reported	
14548	Village Grocery	4685 Jeffries Hwy, Walterboro	December 23, 1991	A
17355	Anna's Variety Shop	4969 Green Pond Hwy, Walterboro	April 2, 1991	В

II. CONTRACTUAL REQUIREMENTS

A. GENERAL REQUIREMENTS

- 1. CONTRACT PERIOD: The contract will be effective from date of award until the corrective actions are complete as described in this contract.
- 2. EQUAL OPPORTUNITY EMPLOYMENT: Contractor must agree to make positive efforts to employ women, other minorities, and minority-owned businesses.
- 3. AMENDMENTS: All amendments to this solicitation shall be in writing from the SCDHEC Procurement Officer indicated on page one of this solicitation. SCDHEC shall not be legally bound by any amendment, interpretation or settlement that is not in writing.
- 4. RESTRICTION . . . THE ONLY OFFICIAL CONTACT PERSON AT SCDHEC DURING THE SOLICITATION AND AWARD OF THIS CONTRACT IS THE PROCUREMENT OFFICER INDICATED ON PAGE 1 OF THIS SOLICITATION. OFFERORS ARE NOT TO CONTACT ANY OTHER SCDHEC PERSONNEL LOCATED OUTSIDE THE BUREAU OF BUSINESS MANAGEMENT.
- 5. AWARD: Award will be made to a South Carolina Certified UST Site Rehabilitation Contractor based on the Grand Total cost, method(s), and Corrective Action Completion Times for all sites listed. For a bid to be considered responsive, the proposed implementation schedule(s) and the proposed remediation technology(ies) or method(s) for active corrective action to achieve the remediation goals must be protective of public health and the environment and be eligible for permitting by SCDHEC. The total cost, methods, and time to complete the contract must be advantageous to the State of South Carolina.
 - a. The Corrective Action Completion Times shall be determined by the offeror and entered into the Corrective Action Solicitation Response in Contract Item IV.B.
 - i. Time is of the essence in completing the site work to restore the aquifers and protect human health and the environment. Therefore, offerors are encouraged to strive for efficient remediation methods and to propose the shortest practical times for the completion of these sites.
 - ii. Award of the contract, if made, will be made to the responsible and qualified offeror who submits the lowest Grand Total amount. The Grand Total amount will be the

sum of the Site Total Amounts provided for each site in the Corrective Action Solicitation Response. In the event that two or more bidders submit the lowest Grand Total amount, the award, if made, will be decided in accordance with the Tie Bids procedure in Section B.(6) of the Underground Storage Tank Environmental Remediation Procedures. Submittal of a "No Bid" for an individual site in this solicitation will be considered non-responsive and will result in rejection of the overall bid.

- iii. The contractor shall enter the number of months in the space provided for each site in Section IV.B and in the Summary Table of the Corrective Action Solicitation Response (IV.C).
- 6. REASONABLE COST: SCDHEC reserves the right to reject any and all bids that appear to be above the customary and reasonable cost for the same scope of work in a similar geologic setting, that propose technologies that cannot be permitted in South Carolina, or that propose time frames for cleanup that are not protective of human health or the environment.
- 7. SITE WORK VERIFICATION: The contractor will be required to treat the area where petroleum chemicals of concern (CoC) are above site-specific target levels for each site in Appendices A through B of this solicitation. Verification that interim corrective action goals have been met will be based upon direct measurements and groundwater quality samples collected from the monitoring wells indicated for each site in the appendices. Verification that final corrective action goals have been met will be based upon direct measurements and groundwater quality samples for each site from all existing monitoring wells and additional verification wells to be installed at locations and depths designated by SCDHEC (See Contract Item III.B.10 for more details). It is understood that seasonal fluctuations in CoC concentrations will occur over time. It is the intent of this corrective action to prevent further degradation of the aquifer(s) by continued migration of CoC into areas not previously impacted. If the corrective action allows CoC to migrate and impact areas beyond the assessed areas of concern established for any of the sites in this solicitation, the Contractor will be responsible for completing assessment activities necessary to re-define the area of concern and for providing amendments to their Corrective Action Plan addressing the additional impacted areas.
- 8. REPORTS: Deliver one copy of each plan or report to: SCDHEC, Bureau of Land and Waste Management, UST Program, 2600 Bull Street, Columbia, SC 29201. A minimum of one (1) copy of each plan and one (1) copy of each report for each site in the appendices must be delivered to the parties listed on the Distribution List included in the appendix for each site. Based on permitting and other requirements, additional copies of plans or reports may be required by the SCDHEC. The SCDHEC will notify the Contractor of the exact number of copies of each document to be submitted.
- 9. INVOICING: Invoices will be submitted to: SCDHEC, Bureau of Land and Waste Management, UST Program, ATTN: Financial Section, 2600 Bull Street, Columbia, SC 29201, using the SCDHEC's Corrective Action (CA) Invoice form. The initial invoice for each site must be received at the above address within four months of CAP approval or funds will be uncommitted as required by the Section 44-2-40(B) of the SUPERB Act. If funds are uncommitted the submitted invoice will be held until funding is available. Payment will only

be made for achieving the corrective action goals as specified. No partial payments will be made once corrective action is initiated, except as outlined in Contract Item III.B.3. Payment to the contractor will be a pay for performance system as follows:

- A. Payment of forty percent (40%) of the total corrective action price for each site will be made within 90 days following receipt of an invoice and documentation that the contractor has completed the Corrective Action System Startup. All corrective action activities must be as described in the CAP and are subject to the limitations of Section 44-2-40 of the SUPERB Act. The implementation should be documented in the first corrective action system evaluation (CASE) report for each site. The first CASE report for each site must include the construction logs for all treatment/recovery wells installed in accordance with the CAP.
- B. Payment of forty percent (40%) of the total corrective action price for each site will be made based on achieving interim CoC concentration reduction goals at the site as verified in the monitoring wells listed in the appendix for each site. Payments will be made upon receipt of invoices and documentation that the contractor has achieved interim goals of 60, 90 and 100 percent reduction of total CoC concentration above the SSTLs for each site by the implementation of active corrective action. The CoC concentrations and SSTLs for each site are listed in the respective appendices.
 - 1. The first concentration reduction goal will be achieved when sixty percent (60%) of the initial CoC concentration above the SSTLs from the monitoring wells specified in the appendix for each site is removed. The following formula will be used to calculate the percent total concentration reduction: total concentration above SSTLs from initial sampling less total concentration above SSTLs from subsequent sampling divided by total concentration above SSTLs from initial sampling. Payment of fifteen percent (15%) of the total bid price will be made upon verification (see Contract Item III.B.10 for the method of verification) that at least sixty percent (60%) of the total CoC concentration above SSTLs is removed.

The following is an example to demonstrate the CoC Concentration Reduction Calculation:

Well			Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	Conc > SSTL
MW-1	Initial	A	7,500	4,000	2,000	15,000	3,000	1,000	A
	SSTL	В	10	2,000	1,400	10,000	80	50	В
	Initial > SSTL	С	7,490	2,000	600	5,000	2,920	950	18,960 ^c
	Subsequent	D	3,000	1,000	900	13,000	2,000	5	Ď
	SSTL	Е	10	2,000	1,400	10,000	80	50	E
	Subsequent > SS	TLF	2,990	0	0	3,000	1,920	0	7,910 ^F
MW-4	Initial	G	150	400	50	250	300	25	0
	SSTL	Н	5	400	50	250	40	25	H
	Initial > SSTL	I	145	0	0	0	260	0	405 ^I

BID NUMBER: IFB-31016-11/28/06-EMW

	Subsequent	100	100	1	1	100	1	3
	SSTL K	5	400	50	250	40	25	K
	Subsequent> SSTL ^L	95	0	0	0	60	0	155 ^L
Totals	Initial > SSTL M	(sum of	(sum of initial concentration above SSTL for all wells) (C+I)				19,365 ^M	
	Subsequent > SSTL ^N	(sum of	(sum of subsequent concentration above SSTL for all wells) (F+L)					8,065 N

Notes: If subsequent sampling indicates a CoC concentration at or below the SSTL and/or a CoC concentration at BDL but the reporting limit is at/or below the SSTL value for any constituent, the value for the concentration reduction will be 0 (no negative numbers).

If subsequent sampling indicates a CoC concentration at BDL but the reporting limit is above the SSTL, the value for any constituent will be the analytical reporting limit.

CoC Concentration Reduction =
$$\frac{\text{(M-N)}}{\text{(M)}} = \frac{\text{(19,365-8,065)}}{19,365} = 0.5835 *100 = 58.35\% \text{ CoC Reduction}$$

- 2. The second concentration reduction goal will be achieved when ninety percent (90%) of the initial CoC concentration above the SSTLs from the monitoring wells specified in the appendix for each site is removed. The formula outlined above will be used. Payment of fifteen percent (15%) of the total corrective action price will be made upon verification (see Contract Item III.B.10 for the method of verification) that at least ninety percent (90%) of the total CoC concentration above SSTLs has been removed.
- 3. The third concentration reduction goal will be achieved when one hundred percent (100%) of the initial CoC concentration above the SSTLs from the monitoring wells specified in the appendix for each site is removed. The formula outlined above will be used. Payment of ten percent (10%) of the total corrective action price will be made upon verification (see Contract Item III.B.10 for the method of verification) that one hundred percent (100%) of the total CoC concentration above SSTLs has been removed. Achievement of this goal must be verified by split sampling with the SCDHEC.
- C. The final twenty percent (20%) of the total corrective action price will be paid upon receipt of an invoice and verification that CoC concentrations do not exceed the SSTLs defined in the appendix for each site and SSTLs calculated for any point in the area of concern for that site. Verification that the SSTLs have been achieved will be based upon groundwater quality samples collected from all existing monitoring wells and additional verification wells to be installed at locations and depths designated by SCDHEC (see Contract Item III.B.10 for more details); and 2) all remediation and assessment items (e.g., wells [including preexisting wells], trenches, etc.) are removed from the site or properly abandoned. The SSTLs for each site are given in the appendices.
- 10. NOTIFICATION FOR FAILURE TO PERFORM: If the contractor fails during the course of this contract to make reasonable progress toward the cleanup goals or to meet any condition or specification of corrective action as outlined in this document without prior notification to the project manager of circumstances legitimately beyond the control of the contractor, SCDHEC

BID NUMBER: IFB-31016-11/28/06-EMW

will, on the first occurrence, notify the contractor by certified letter and meet with them to establish a remedy for the deficiency(ies). If the contractor corrects the deficiency(ies) within an agreed to period of time, the corrective action award will continue. If the contractor does not correct the deficiency(ies) within the agreed to period of time, the contractor will be in breach of contract and the corrective action award may be voided by SCDHEC. On the second occurrence, SCDHEC will notify the contractor and their bonding agent or creditor by certified letter and meet with them to establish a remedy for the deficiency(ies). If the contractor corrects the deficiency(ies) within an agreed to period of time, the corrective action award will continue. If the contractor does not correct the deficiency(ies) within the agreed to period of time, the contractor will be in breach of contract and the corrective action award may be voided by SCDHEC. If the contractor fails on a third occasion during the course of this contract to meet any condition or specification established in this document, the contractor will be in breach of contract and the corrective action award will be voided by SCDHEC. SCDHEC will notify the contractor and their bonding agent or creditor by certified letter that the corrective action award has been voided and will initiate appropriate actions with the bonding agent. In the event that the corrective action award is voided due to a breach of contract as outlined above, no further payment of any invoices will be made. If the corrective action award is voided under the conditions listed above, the contractor will incur a six-month suspension from bidding on any UST-related solicitations in South Carolina and may be subject to suspension or decertification in accordance with the SUPERB Site Rehabilitation and Fund Access Regulations, R.61-98. Any voiding of a corrective action award due to breach of contract will apply only to the site where the deficiency(ies) occurred and will not directly affect other sites awarded in conjunction with this solicitation.

- 11. CANCELLATION: The accepted corrective action cost will be final and will not be increased or cancelled for any reason (e.g., unanticipated iron fouling of a system, wells clogging because of biological activity or sediments, damage by lightning, increased subcontractor costs, loss of utilities, modification to the system to meet the remediation goals, etc.) with the exception of unforeseen subsurface conditions as determined solely at the discretion of the SCDHEC or identification of additional CoC from a release occurring after the award of this contract that adversely impacts the corrective action. Contractor-owned items used on-site for the contract that are damaged or destroyed by common acts of nature, improper maintenance or handling, theft or vandalism will not be replaced or reimbursed by the SUPERB Account. Payment will only be made for achieving the corrective action goals as specified in this contract. No interim or partial payments will be made once corrective action is initiated, except as outlined as follows. Once site rehabilitation has been initiated under this contract, in the event of a cancellation due to the circumstances prescribed in this condition, final payment will be a percentage of the contract amount equal to the actual percent reduction of the CoC concentration as calculated based on the last sampling results from all wells listed in the Appendix for each site less the amount previously paid. Any action taken by the SCDHEC under this condition that might result in the cancellation of a corrective action award due to circumstances described in this condition will apply only to the affected site and will not directly affect other sites awarded in conjunction with this solicitation.
- 12. PERFORMANCE BOND: A performance bond, equal to fifty percent (50%) of the award price, will be required by SCDHEC for each site and should be submitted with the CAP.

BID NUMBER: IFB-31016-11/28/06-EMW

Bonds must be obtained from a surety that is on the Secretary of the Treasury's list of acceptable sureties for Federal bonds. The original performance bonds will be submitted to the Bureau of Land and Waste Management, UST Program, Attn: Financial Section, within 30 days of award. The performance bonds will specify that the SUPERB Account will be the recipient of any forfeiture. The performance bonds must bear the SCDHEC Permit ID Number and the Bid Number. Since SCDHEC is responsible for disbursement of funds from the SUPERB Account, the bonds will be held by the Bureau of Land and Waste Management, UST Program until the work is successfully completed at each of the awarded sites. The performance bond for each site must be kept current for the duration of the corrective action. Failure to maintain the performance bonds may result in the corrective action award being voided by SCDHEC in accordance with Contract Item II.A.10.

B. SPECIFIC REQUIREMENTS

- 1. CONTRACT SCOPE: This contract is for active corrective action at two sites in South Carolina.
- 2. INQUIRIES: Questions or requests for information must be submitted in writing and received by 4:00 P.M. on the date specified in Section I.C of this solicitation. After this date, no further questions will be addressed. A written response will be provided to all requestors of the solicitation. The questions may be faxed to E. Madison Winslow in the SCDHEC Bureau of Business Management at (803) 898-3505.
- 3. PROVISION FOR EARLY COMPLETION INCENTIVE: The SCDHEC will pay the Contractor an incentive of ten percent (10%) of the Cleanup Cost for early completion, subject to the conditions set forth in this provision. Payment will be made if the remediation goals on a given site have been met in accordance with the terms and conditions of this contract prior to the end of the Site Incentive Period, as established by the SCDHEC, and verified in accordance with Contract Item III.B.10.

The Site Incentive Period will commence on the Corrective Action System Startup Date. A month starts at 12:00 Midnight on the same day of the month as the Corrective Action System Startup Date and ends at Midnight preceding the same day of the following month. Months will be consecutively counted from the corrective action system startup date. Following system startup at a site, the SCDHEC will provide the Contractor notice in writing of the closing date of the Site Incentive Period for that site.

The Site Incentive Period will not be adjusted for any reason, cause or circumstance whatsoever, regardless of fault, save and except in the instance of a catastrophic occurrence directly and substantially affecting the Contractor's operations and resulting in unavoidable delay of the cleanup. In the event of a catastrophic occurrence on a specific site, the SCDHEC shall determine the number of months reasonably necessary and due solely to such catastrophic occurrence to extend the Site Incentive Period. Any amendments to the Site Incentive Period will be provided to the Contractor in writing.

The parties anticipate that routine delays may be caused by or arise from any number of events during the course of site rehabilitation, including, but not limited to, work performed, work deleted, supplemental agreements, delays, disruptions, differing site conditions, utility conflicts, design changes or defects, extra work, right of way issues, permitting issues, actions of suppliers, subcontractors or other contractors, actions by third parties, expansion of the scopes of the projects by the Contractor to make them functional, weather, weekends, holidays, suspensions of the Contractor's operations, or other such events, forces or factors experienced in environmental work. Such delays or events and their potential impacts on performance by the Contractor are specifically contemplated and acknowledged by the Contractor in entering into this Contract, and shall not affect the Site Incentive Periods or incentives set forth above. Further, any and all costs or impacts whatsoever incurred by the Contractor in accelerating the Contractor's work to overcome or absorb such delays or events in an effort to complete the sites within the Site Incentive Periods, regardless of whether the Contractor successfully does so or not, shall be the sole responsibility of the Contractor in every instance.

The Contractor shall have no rights under the Contract to make any claim arising out of this incentive provision except as is expressly set forth in this provision. The Site Incentive Periods for these projects are as follows:

Permit #	Site Name	Appendix	Site Incentive Period
14548	Village Grocery	A	42 months
17355	Anna's Variety Shop	В	30 months

4. SITE SPECIFIC DETAILS: Brief technical summaries of the releases, including location map and specifics of existing wells for each site are attached in Appendices A - B. The complete technical file for each site will be available for review through the Freedom of Information (FOI) Office located at the Stern Building, 8911 Farrow Road, Columbia, SC. Offerors are strongly encouraged to review the files to ensure a complete understanding of the project requirements. The successful offeror will be responsible for all information in the technical files. Appointments to view the technical files may be scheduled on weekdays between the hours of 8:30 A.M. to 5:00 P.M. by calling the SCDHEC Freedom of Information Office at (803) 898-3882. NOTE: Free-phase product may be present at these sites. The application of corrective action technologies or natural fluctuations in the water table can result in the mobilization or possible appearance of free-phase product or elevated CoC concentrations in the monitoring wells.

III. SPECIFICATIONS for CORRECTIVE ACTION

A. GENERAL SPECIFICATIONS

- 1. SUBMITTALS: All offerors must meet the following specifications for each site as required by the proposed treatment method(s) or corrective action technology(ies). Submit the Corrective Action Solicitation Response. The response will outline in general terms an approach to achieve the remediation goals (e.g., reduction of each CoC to SSTL). The proposal must outline the following:
 - a) A description of the proposed treatment method(s) or technology(ies) for corrective action.

- b) The amount of time in months to complete site rehabilitation to meet the remediation goals, install verification wells, and remove or abandon all assessment and remediation items.
- c) The total cost (in U.S. dollars) to complete site rehabilitation to meet the remediation goals and to remove or abandon all assessment and remediation items.
- 2. MINIMUM REQUIREMENTS: Corrective action will be considered complete at each site once the levels of CoC are verified to be at or below the SSTLs listed in the Appendix for that site and SSTLs calculated for any point in the area of concern, and all remediation and assessment items installed by the contractor (e.g., wells [including pre-existing wells], trenches, etc.) are removed or abandoned. See Contract Item III.B.10 for the method of verification. All rehabilitation activities associated with a UST release must be performed by a SCDHEC certified Class I Site Rehabilitation Contractor as required by R.61-98. All corrective action plans and reports must be sealed by a Professional Engineer or Professional Geologist registered in the State of South Carolina. All engineering reports, drawings and plans must be sealed by a Professional Engineer registered in the State of South Carolina. All laboratory analysis for CoC must be performed by a SC certified laboratory. All monitoring, verification, injection, or recovery wells must be installed and abandoned by a SC certified well driller. The corrective action methods or technologies will be designed to prevent vapors from entering onsite or adjacent structures. All applicable certification, training, permits, applications, and fees associated with well installation; injection, discharge, treatment, or transportation of groundwater, air, or soil; construction or operation of a remediation system; and any other action requiring a permit are the responsibility of the contractor. Any required business or occupation license and occupational safety and health training (e.g., OSHA) as defined by the laws and regulations of the United States of America, the State of South Carolina, the county or city is also the responsibility of the contractor. The terms and conditions of all applicable permits will be met. Any contaminated groundwater, soil, or construction material must be properly transported and disposed of, or treated at an approved facility with prior approval from SCDHEC. Any costs for utilities construction and service (electric, telephone, sewer, etc.) required by the corrective action are the responsibility of the contractor.

B. PERFORMANCE REQUIREMENTS

1. CORRECTIVE ACTION PLAN: The successful contractor must complete and submit a detailed Corrective Action Plan for each site in the Appendices within 30 days from the date the Purchase Order is issued by the Bureau of Business Management. Copies of the CAP must be distributed in accordance with Section II.A.8. NOTE: Use of monitoring well(s) for injection, extraction, or free-phase product recovery purposes is not allowed. A condition of the CAP may include installation of additional recovery, sparge, compliance, or injection wells. The CAP must define all active (pump and treat, sparge, vapor extraction, excavation of impacted soils, bioremediation, etc.) and passive (intrinsic remediation, monitoring, etc.) corrective action method(s) proposed to reduce CoC to SSTLs. It must be shown, by use of scientific models, computations, or discussion, how each CoC will be reduced to the SSTL for each remediation method proposed for the release. Any assumptions used in a model will be listed or shown, as well as appropriate references. All corrective action will require monitoring to verify remediation. General construction details will be included (e.g., install four additional recovery wells, construct a compliance point, install four air injection wells, excavate 3,000 cubic yards of

impacted soils, etc.) as well as details of well abandonment and equipment removal. The corrective action method(s) or technology(ies) will be designed to prevent vapors from entering onsite or adjacent structures. A remediation timetable including abandonment of wells and removal of equipment will be included with each CAP. The Bureau of Land and Waste Management, UST Program will review each CAP and initiate a public notice period for a maximum of 30 days. The names and addresses of the owners of all impacted properties and all properties located adjacent to the impacted properties are provided in the appendix for each site. The contractor may be required to attend and provide input at one or more public meetings upon request by SCDHEC. Any CAP amendments and modifications arising from public notice must be submitted within 15 days of notification by SCDHEC. The CAPs and any amendments or modifications must be sealed by a qualified Professional Geologist or Engineer registered in the State of South Carolina. The owner/operator of each site and any other affected property owners will be consulted and will approve the location of the corrective action systems. Permanent systems must be enclosed in fenced areas or small buildings.

- 2. PERMIT APPLICATIONS: Complete and submit all applications for permits (injection, NPDES, BAQC modeling form, thermal treatment, construction, etc.) with the CAP for each site. All submitted applications must comply with the requirements of the respective permitting program. Any required permit changes or corrections will be submitted within 15 days of notification by SCDHEC.
- 3. INITIAL MONITORING REPORT: An initial monitoring report for each site documenting CoC concentrations in all wells and potentiometric conditions prior to start up must be submitted to the Bureau of Land and Waste Management, UST Program within 45 days after award. Copies of the initial monitoring report must be distributed in accordance with Section II.A.8.

Based on naturally occurring conditions, the dissolved concentration of petroleum chemicals of concern (CoC) will increase or decrease. For the purposes of this contract, the total CoC concentration for the wells included in the bid package may reasonably increase up to 150 percent or decrease as much as 50 percent. If the total CoC concentration in all wells for any included site increases more than 150 percent based on this initial sampling or if measurable free-phase product that has not been previously documented in any report is detected during the initial sampling event, the contractor may request in writing that the award for that site be canceled. If either of these conditions occurs, the contractor will contact the UST project manager within two days of problem identification and will submit written documentation within five days of notification. The contractor will be reimbursed based on the following rate schedule:

Subcontract Costs*	Invoice + 15%
Personnel Mobilization	\$ 125.00
Equipment Mobilization	\$ 250.00
Groundwater Sample Collection	\$ 35.00 each
Gauging Free-phase Product	\$ 30.00 per well
Wastewater Disposal	\$ 90.00 per drum
CAP Preparation and Assoc. Costs	\$ 6,000.00

^{*} Includes laboratory, drilling, electrical, etc.

BID NUMBER: IFB-31016-11/28/06-EMW

The rate schedule above does not apply in the event that the corrective action award is voided due to a breach of contract in accordance with Contract Item II.A.10. The contract will be amended to remove the site in question and the performance bond for that site will be returned to the contractor. If the total CoC concentration in all wells for any included site decreases more than 50 percent based on this initial sampling the SCDHEC may amend the award to remove the site in question. If the contract is amended by SCDHEC to remove a site, the contractor will be notified by certified letter and an invoice for the above outlined items for that site shall be submitted within 20 days from the date of the certified letter. If the corrective action system is started or treatment is performed, the contractor will be required to complete the contract unless circumstances as outlined in Contract Item II.A.11 are encountered. Once CAP implementation has been initiated under this contract, in the event of a cancellation due to the prescribed circumstances and before any concentration reduction has been achieved, final payment will not exceed 40 percent of the award price under any circumstances as no reduction of CoC concentration has been accomplished.

4. CORRECTIVE ACTION PLAN IMPLEMENTATION: After completing review of the CAP and all permit applications submitted for each site, the Bureau of Land and Waste Management, UST Program will issue a notice to proceed with CAP implementation. The contractor will implement the CAP within 30 days of receipt of the notice to proceed and any required permit to construct. Disruption to the normal business at the sites will be kept to a minimum. The contractor will repair each site to the condition that existed prior to installation of the corrective action system (e.g., asphalt paved areas will be repaved with asphalt, concrete areas replaced with concrete, grass area will have soil replaced to the original grade and reseeded or sodded with grass, etc.). Upon completion of any required construction, SCDHEC will inspect the system and issue a permit to operate. The contractor will, at all times, keep the sites free from waste materials and rubbish related to the corrective action. Until completion of the corrective action, the contractor will keep the premises in a clean, neat and workmanlike condition satisfactory to SCDHEC. All soil and wastewater generated on site will be removed from the each site promptly. Manifests documenting the proper disposal of the soil and wastewater must be included in the appropriate report.

Implementation of the CAPs is not authorized until the contractor receives correspondence from the UST Program indicating that the required public notice period has been successfully completed and all permits have been issued. If premature implementation occurs, the UST Program will not reimburse those costs from the SUPERB Account, and the bid award will be reduced by that amount. If the SCDHEC agrees with early implementation to better protect human health in an emergency and provides approval in writing, early implementation without any reduction to the corrective action amount will be authorized.

5. PROPERTY ACCESS: Gain access to the adjacent properties to sample monitoring wells and to install any corrective action equipment, as required. The contractor will repair the adjacent properties to the conditions that existed prior to installation of the corrective action system (e.g., asphalt paved areas will be repaved with asphalt, concrete areas will be replaced with concrete, grass areas will have soil replaced to the original grade and reseeded or sodded with grass, etc.). The Contractor will be responsible for any equipment/wells installed on adjacent properties. Costs to repair/replace components of the remediation system damaged due to the actions of

adjacent property owners cannot be paid by the SUPERB Account.

- 6. SYSTEM START-UP: The Contractor will initiate system startup within 15 days of receipt of the Permit to Operate, if required. Remediation as defined in the CAP for each site will begin upon system startup. If any problem with CAP implementation occurs, the contractor will contact the UST project manager for the site within 24 hours of problem identification and will submit written documentation within five days of notification. NOTE: Free-phase product may be present at these sites. The application of corrective action technologies or natural fluctuations in the water table can result in the mobilization or possible appearance of free-phase product or elevated CoC concentrations in the monitoring wells.
- 7. REPORTING: Complete and submit a corrective action system evaluation (CASE) report on a quarterly basis. Deliver one copy of each report to: SCDHEC, Bureau of Land and Waste Management, UST Program, 2600 Bull Street, Columbia, SC 29201. A copy of each report for each site in the appendices must be delivered to the parties listed on the Distribution List included in the appendix for each site. The first quarter CASE report for each site is due within 90 days of the permit to operate. The CASE reports must include:
 - A. A narrative portion that documents current site conditions, verification of system operation or CAP implementation, and system effectiveness in achieving the remediation goals (e.g., reducing CoC to the SSTLs) as outlined in the CAP. Any system down time and the associated reason(s) will be included in the report.
 - B. Conclusions and recommendations based on the reported data.
 - C. Groundwater laboratory analytical data for all monitoring wells in the following format (additional parameters such as dissolved oxygen may be required):

Analytical Data (ug/l)

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	МТВЕ	Naphthalene
MW-1	7/15/97	145	200	146	1,000	170	47
	10/15/97	140	190	140	900	50	165
MW-2	7/15/97	580	800	300	1,000	60	20
	10/15/97	480	90	257	912	50	19

D. Groundwater potentiometric data for all monitoring wells in the following format:

Groundwater Data (feet)

Monitoring Well	Date	TOC Elevation	TOC to GW	TOC to FP	FP Thickness	GW Elevation
MW-1	7/15/97 10/15/97	98.0 98.0	17.54 17.90			80.46 80.10
MW-2	7/15/97 10/15/97	100.0 100.0	20.50 21.50	20.47 21.48	0.03 0.02	79.50 78.50

- E. A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- F. A CoC map based upon current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well using the following format (additional parameters such as dissolved oxygen may be required):

MW - Number
Benzene (μg/l)
Toluene (μg/l)
Ethylbenzene (μg/l)
Xylenes (μg/l)
MTBE (μg/l)
Naphthalene (μg/l)

- G. Calculation of CoC concentration reduction as outlined in Contract Item II.A.9.B.1.
- H. A copy of the SCDHEC approval letter and manifests for any contaminated soil and groundwater removed from the site for treatment and/or disposal.
- I. Additional data required by permits (e.g., air analyses, wastewater effluent analyses and amounts, etc.). The data should be reported on a form or in a format specified in the permits, and attached to the monitoring report as an addendum.

All rehabilitation activities associated with the UST releases must be performed by a SCDHEC Certified Class I Site Rehabilitation Contractor. All air, soil, and groundwater analyses must be performed by a South Carolina certified laboratory. The corrective action monitoring reports must be sealed by a Professional Engineer or Geologist registered in the State of South Carolina. All monitoring wells, water supply wells, and surface water locations associated with each release will be sampled on a quarterly basis for the first year following implementation/system start-up. CASE reports must be submitted in accordance with the established monitoring schedule regardless of the operational status of the corrective action system. Thereafter, the number of monitoring wells sampled may be reduced or the interval between CASE reports may be lengthened upon clear demonstration of CoC reduction, unless restricted by permit requirements. Approval of any reduction in the number of wells to be sampled or change in the interval between submittal of CASE reports is at the sole discretion of SCDHEC. Any approval to reduce the number of wells sampled or the frequency of sampling must be in writing from the UST Program. SCDHEC may require data to be reported on a form or in a specific format. The contractor will be provided with the proper report forms and format prior to system startup. The contractor will be notified of any revisions to the report forms or format 90 days prior to the due date for the next CASE report.

8. GROUNDWATER & ADDITIONAL SAMPLING: Collect one (1) water sample per monitoring event for all monitoring wells, water supply wells, and surface water locations associated with the release for each site (see Appendices). If free-phase product appears that was not documented in

the baseline data, the thickness of product and depth to groundwater must be recorded to the nearest 0.01 foot. If required, the well shall be purged prior to sampling and pH, temperature, dissolved oxygen, and specific conductance recorded. For those monitoring wells where the water level is within the screened interval, groundwater samples should be collected without purging. For those monitoring wells where the water level is not within the screened interval, purging must be conducted. All water supply wells must be purged prior to sampling. Purging is considered complete once three well volumes have been removed or the pH, temperature, dissolved oxygen, and specific conductance have equilibrated, yielding two consecutive readings with all parameters within ± 10 percent, whichever comes first. Sampling logs should note all field measurements, as well as the location and type of each sample submitted for laboratory analysis. Each groundwater sample will be collected in accordance with established QA/QC protocol and submitted to a certified laboratory for analysis. The samples must be analyzed for the parameters listed in the appendix for each site.

Additional samples (air, groundwater, effluent, soil) required by permits must be collected in accordance with established QA/QC protocol and submitted to a certified laboratory for analysis. The samples will be analyzed for parameters stipulated in the permits. Sampling and analytical data for each sample (e.g., field sampling logs, chain of custody forms, certificates of analysis, and the lab certification number) will be included in the CASE report.

- 9. DISPOSAL: Properly dispose of all contaminated soil and groundwater generated during the implementation of the CAP and installation of verification wells for each site. The disposal facility selected for treatment and disposal of any contaminated soil and groundwater must be a SCDHEC-approved facility. The owner/operator of the UST facility is considered the generator for any contaminated soil and groundwater. The contractor must document disposal of contaminated soil and groundwater in the CASE reports.
- 10. QUALITY ASSURANCE: If the remediation technology is in-situ (e.g., pump and treat, air sparging, vapor extraction): suspend operation of the system once the remediation goals for all CoC have been maintained for a period of 30 days. Samples are to be taken one (1) quarter after the date established by the SCDHEC as the start of the post-remediation verification period and again after a second quarter. Along with the parameters listed in the appendix for each site, the groundwater samples should also be analyzed for the following parameters:

Analyte	Analytical Method*	Reporting Limit (μg/l)
Dissolved Oxygen	SM4500-O G	500
Ferrous Iron	SM3500-Fe D	30
Methane	Kerr	1000
Nitrate	9056/9210	100
Sulfate	9038/9056	1000

*or EPA equivalent method that can achieve the same reporting level

If sample results indicate that the remediation goals are not sustained, the contractor must submit a corrective action status report (3 copies) that outlines the deficiency(ies) and offers recommendations for achieving the remediation goals with a revised timetable. Modifying and restarting of the system may be necessary. All remediation goals must be again maintained for a minimum of 30 days. Corrective action will then be suspended again and samples taken to verify that remediation goals are sustained. This cycle of activity, including status reports, will be repeated until all CoC levels remain below SSTLs for all wells listed in the appendix for each site for two (2) consecutive quarters. Verification wells may be installed at locations and depths designated by SCDHEC (See Appendices for number of verification wells for each site). Costs for verification well installation are considered part of the Cleanup Cost. Each well will be sampled in accordance with Contract Item III.B.8 and the analyses compared to the calculated SSTLs for the CoC at that well location. If the laboratory analyses are at or below the SSTLs, corrective action will be considered complete. If any analyte is above the SSTL, the corrective action will not be considered complete, and the activity cycle described above must be repeated until all CoC levels remain below SSTLs for those wells listed in the appendix for that site. Split or duplicate samples may be collected by SCDHEC (or its subcontractors) to verify achievement of remediation goals. In addition to the groundwater collected from the monitoring wells, the UST Program may provide up to three standards or prepared blanks for the contractor's laboratory to analyze. The laboratory analysis from the contractor's and the UST Program's laboratory will be compared. In the event of substantial variance (more than 15%), a second sampling event with field and trip blanks will be sent to a SC certified laboratory by the UST Program for analysis. The contractor will be notified when the wells will be resampled, can observe this second sampling event, and will be provided analytical results for comment. SCDHEC Laboratory Certification will be provided copies of all sample data sets with all relevant quality assurance/quality control data to assist the UST program in determining the cause of a laboratory variation. The Director of the Assessment and Corrective Action Division will make the final decision on which analytical values will be the basis for payment or closure with input from the site rehabilitation contractor, SCDHEC Laboratory Certification, the UST Section Manager, and the UST Project Manager. The site rehabilitation contractor will be provided a written record of any decision. At least two weeks notice will be provided to the UST Project Manager prior to mobilizing to the site for sampling to verify attainment of remediation goals. Costs for transportation and analysis of split or duplicate samples will be paid by SCDHEC.

- 11. DEMOBILIZATION: Disassemble and remove the remediation system and all associated remediation items including utilities from each site within 60 days of notification by SCDHEC that the remediation goal for the release associated with the UST(s) at each site has been achieved. Disruption to the site's normal busine ss will be kept to a minimum.
- 12. SITE RESTORATION: Properly abandon all monitoring, recovery, and/or injection wells (including pre-existing wells), borings, trenches, and piping/utility runs installed by the contractor as part of corrective action within 60 days of notification by SCDHEC that the remediation goal for the release associated with the UST(s) at the site has been achieved. The abandonment will be in accordance with South Carolina Well Standards and Regulations R. 61-71 and accepted industry standards for abandonment of trenches and piping/utility runs. Disruption

to the property owner's normal business will be kept to a minimum. The contractor must notify SCDHEC of the method of well abandonment and final disposal of any contaminated soil or groundwater. The contractor will return the site to the condition prior to corrective action (e.g., asphalt paved areas will be repaved with asphalt, concrete areas will be replaced with concrete, grass areas will have soil replaced to the original grade and reseeded or sodded with grass, etc.).

13. COMPLETION NOTICE: The Contractor shall provide the SCDHEC with written notice at least two weeks prior to Completion. This will allow the Project Manager and Contractor time to jointly inspect the project and, if necessary, make a Completion Punch List of work to be finished. Items on the Punch List may include, but are not limited to well abandonment, pavement repair, debris removal, etc. The date of completion will be determined by the project manager when all Punch List work is completed.

IV.BID AWARD

Α.	ACCEP	TANCE	and L	DELIVE	KY SIA	TEMENT

А.	ACCEPTANCE and DELIVERY STATEMENT						
	In compliance with the solicitation and subject to all conditions thereof, the offeror agrees, if this bid is accepted within days from date of opening, to complete the corrective action as specified at the prices set forth for all sites as stated below.						
	For the purpose of this submittal and acceptance of financial approval should it occur, I certify that this company understands the nature of the releases and the geologic conditions at these sites as documented in the technical files and this solicitation. Any quantities listed in the corrective action method(s) below are estimates and changes to those quantities or to the listed method(s) will not affect the bid price. Additionally, I certify that this company understands that acceptance is based on total cost to treat the areas of concern.						
	Certification No.						
	Contractor (Print)						
	Authorized Representative (Print) Signature						
В.	CORRECTIVE ACTION SOLICITATION RESPONSE						
	Please respond to the following questions.:						
S	SITE A -Village Grocery, (UST Permit #14548), 4685 Jeffries Hwy, Walterboro, SC.						
	1. The corrective action method(s) or technology(ies) that will be proposed in the CAP will be:						

2. The Corrective Action Completion Time, in months, to complete the corrective action from date of corrective action system startup until corrective action goals are met is months.	:he
3. The Corrective Action Cost, in whole dollars, regardless of the type, quantity, or duration of permitted technology applied, to treat the area of concern (see Attachment A, Figure #4) such the levels of CoC do not exceed the site-specific target levels (SSTLs) defined in Contract Ite II.A.9.C at any point, complete all associated monitoring and post-remediation verification, all plans, reports, and correspondence; obtain and meet all terms and conditions of all require permits and licenses; design, install, monitor, operate, maintain, and when completed, proper abandon or remove all assessment and remediation items installed as part of corrective action provide evidence of performance bond; and other items outlined in this solicitation (Site A or \$_{\text{otherwise}}\$).	h that on orepare ed rly s;
SITE B - Anna's Variety Shop, (UST Permit #17355), 4969 Green Pond Hwy, Walterboro,	SC.
1. The corrective action method(s) or technology(ies) that will be proposed in the CAP will b	∋:
2. The Corrective Action Completion Time, in months, to complete the corrective action from date of corrective action system startup until corrective action goals are met is months.	the
3. The Corrective Action Cost, in whole dollars, regardless of the type, quantity, or duration of permitted technology applied, to treat the area of concern (see Attachment A, Figure #4) such the levels of CoC do not exceed the site-specific target levels (SSTLs) defined in Contract Items II.A.9.C at any point, complete all associated monitoring and post-remediation verification, all plans, reports, and correspondence; obtain and meet all terms and conditions of all require permits and licenses; design, install, monitor, operate, maintain, and when completed, proper abandon or remove all assessment and remediation items installed as part of corrective action provide evidence of performance bond; and other items outlined in this solicitation (Site B or \$	h that em prepare ed rly ;

C. BID SCHEDULE SUMMARY TABLE

SITE(ID #)	FACILITY NAME	CORRECTIVE ACTION	CORRECTIVE
		COMPLETION TIME (months)	ACTION COST
A. 14548	Village Grocery		
В. 17355	Anna's Variety Shop		
		GRAND TOTAL	

PLEASE READ THE FOLLOWING CAREFULLY PRIOR TO COMPLETING BID

INSTRUCTIONS TO BIDDERS

DISCUSSIONS AND NEGOTIATIONS: By submission of a bid, bidder agrees that during the period following issuance of this solicitation and prior to notification of intent or award of a contract, the bidder shall not discuss this procurement with any party except members of the DHEC Procurement Division or other parties designated in this solicitation. Bidder shall not discuss or attempt to negotiate with the using area or program any aspects of the procurement without prior approval of the DHEC Procurement Division Buyer responsible for the procurement. Infractions may result in rejection of the violator's bid.

- Unless otherwise required herein, only one signed copy of the invitation to bid is required.
- 2. Bids "faxed" directly to the DHEC Procurement Office will not be accepted or considered for award.
- 3. Bids, amendments thereto or withdrawal request must be received by the time advertised for bid opening. It is the bidder's sole responsibility to insure that these documents are received by the person (or office) at the time indicated in this solicitation document. DHEC Underground Storage Tank Environmental Remediation Procedures shall govern any withdrawal request received after the time of the bid opening.
- 4. When specifications or descriptive papers are submitted with the bid submission, enter bidder's name thereon.
- 5. Submit your signed bid on this form. Show the bid number on the envelope as instructed. DHEC assumes no responsibility for unmarked or improperly marked envelopes. All envelopes received showing a bid number are placed directly under locked security until the date and time of opening. Do not include more than one bid invitation per envelope. If directing any other correspondence, address the envelope to the Procurement Officer but do not include the bid number on the envelope since it does not include your bid.
- 6. Bidders must clearly mark as "CONFIDENTIAL" each part of their bid which they consider to be proprietary information that could be exempt from disclosure under Section 30-4-40, Code of Laws of South Carolina 1976 (1986 Cum. Supp.; Freedom of Information Act). If any part is designated as confidential, there must be attached to that part an explanation of how this information fits within one or more categories listed in Section 30-4-40. DHEC reserves the right to determine whether this information should be exempt from disclosure and no legal action may be brought against the State, DHEC or its agents for its determination in this regard.
- 7. By submission of a bid, **you are guaranteeing** that all goods and services meet the requirements of this solicitation during the contract period.
- 8. **Tie bids** will be resolved as outlined in DHEC Underground Storage Tank Environmental Remediation Procedures.
- 9. **Do not include any taxes** that DHEC may be required to pay in the bid price. Upon submission of a bid by a state agency, the Procurement Officer will compute a 5% sales and use tax to the non-state agency bids when applicable (service and labor excluded) in determining the low bidder. This procedure conforms to the SC Tax Commission Sales and Use Tax Regulation 117-174-.95.
- 10. Correction of errors on this bid form: All prices and notations should be printed in ink or typewritten. Errors should be crossed out, corrections entered and initialed by the person signing the bid. Erasures or use of typewriter correction fluid may be cause for rejection. No bid shall be altered or amended after the time specified for the bid opening.
- 11. **Ambiguous bids** that are uncertain as to terms, delivery, quantity, or compliance with this solicitation may be rejected or otherwise disregarded.
- 12. Any bidder desiring to exercise a grievance may do so under section IV of DHEC Underground Storage Tank Environmental Remediation Procedures. All correspondence should be directed to the Director of Procurement Services, Bureau of Business Management, 2600 Bull Street, Columbia, SC 29201.
- Failure to respond to three consecutive bid notices may result in removal of bidder's name from the mailing list.

GENERAL PROVISIONS

- 14. DHEC reserves the right to reject any and all bids, and to cancel this solicitation.
- 15. Unit prices will govern over extended prices unless otherwise stated in this solicitation.
- 16. **Prohibition of Gratuities:** Amended section 8-13-420 of the 1976 Code of Laws of South Carolina States: "Whoever gives or offers to any public official or public employee any compensation, including a promise of future employment, to influence his action, vote, opinion or judgment as a public official or public employee or such public official solicits or accepts such compensation to influence his action, vote, opinion or judgment shall be subject to the punishment as provided by Section 16-9-210 and Section 16-9-220. The provisions of this section shall not apply to political contributions unless such contributions are conditioned upon the performance of specific actions of the person accepting such

- contribution nor shall they prohibit a parent, grand-parent or relative from making a gift to a child, grandchild, or other close relative for love and affection except as hereafter provided".
- 17. **Bidder's Qualification:** Bidders must, upon request of DHEC, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. DHEC reserves the right to make the final determination as to the bidder's ability to provide the products or services requested herein.
- 18. **Bidder's Responsibility:** Each bidder shall fully acquaint himself with conditions relating to the scope and restrictions attending the execution of the work under the conditions of this solicitation. It is expected that this will sometimes require on-site observation. The failure or omission of a bidder to acquaint himself with existing conditions shall in no way relieve him of any obligation with respect to this bid or to the subsequent contract.
- Amendments: All amendments to and interpretations of this solicitation shall be in writing from the DHEC Procurement Office. Neither DHEC nor the Procurement Officer shall be legally bound by any amendment or interpretation that is not in writing.
- 20. **Award Criteria:** Award shall be as indicated herein to the lowest responsible and responsive bidder whose bid meets the requirements and criteria set forth in this solicitation. Award may take longer than fourteen days. A copy of the award notice should be posted on Procurement Services' website at: dhec.sc.gov/procurement.
- 21. **Rejection:** DHEC reserves the right to reject any bid that contains prices for individual items or services that are unreasonable when compared to the same or other bids if the rejection is in the best interest of the State.
- 22. **Competition:** This solicitation is intended to promote competition. If the language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested bidders to notify the DHEC Procurement Office in writing so as to be received five days prior to the opening date. Notification may be "faxed" to the DHEC Procurement Office, (803) 898-3505. The solicitation may or may not be changed but a review of such notification will be made prior to award.
- 23. **Order of Precedence:** In the event of inconsistency between provisions of this solicitation, the inconsistency shall be resolved by giving precedence in the following order; (A) the bidding schedule, (B) the specifications, (C) general conditions, (D) special provisions or special conditions of the contract whether incorporated by reference or otherwise, and (E) instruction to bidders.

GENERAL CONDITIONS

- 24. **Contract Administration:** Questions or problems arising after award of this solicitation/contract shall be directed to the DHEC Procurement Office, 2600 Bull Street, Columbia, SC, 29201. Reference the solicitation and contract number.
- 25. **Default:** In case of default by the contractor, DHEC reserves the right to purchase any or all items in default in the open market, charging the contractor with any additional costs. The defaulting contractor shall not be considered a responsible bidder until the assessed charge has been satisfied.
- 26. **Save Harmless:** (This General Condition does not apply to solicitations for service requirements). The successful bidder shall indemnify and save harmless the State of South Carolina and DHEC and all its officers, agents and employees from all suits or claims of any character brought by reason of infringing on any patent, trade mark or copyright. The bidder shall have no liability to DHEC if such patent, trademark or copyright infringement or claim is based upon the bidder's use of material furnished to the bidder by the State.
- 27. **Publicity Releases:** By submission of a bid, the contractor agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by DHEC or user.
- 28. **Tax Credit Availability:** Bidders interested in income tax credit availability by subcontracting with Certified Minority Firms should contact the Office of Minority Business Assistance, 1205 Pendleton Street, Columbia, SC, 29201. (803-734-0562)
- 29. **Affirmative Action:** The successful bidder will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, without regard or discrimination by reason of race, color, religion, sex, national origin or physical handicap.
- 30. **Assignment:** Unless otherwise indicated in this solicitation, no contract or its provisions may be assigned, sublet, subcontracted, or transferred without the prior written consent of the DHEC Procurement Office.
- 31. **Termination:** Any contract resulting from this solicitation may be terminated by DHEC by providing a thirty-day advance notice in writing to the successful contractor.
- 32. **Non-Appropriations:** Any contract entered into by DHEC resulting from this solicitation shall be subject to cancellation without damages or further obligation when funds are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal period or appropriated year.

- 33. **Convenience:** In the event that this contract is terminated or canceled upon request and for the convenience of DHEC without the required thirty days advance written notification, then DHEC shall negotiate reasonable applicable termination costs.
- 34. **Cause:** Any contract resulting from this solicitation may be terminated without advance notice by DHEC for cause, default or negligence on the part of the successful contractor.
- 35. S.C. Law Clause: Upon award of a contract under this bid, the person/partnership, association or corporation to whom the award is made must comply with the laws of South Carolina which require such person or entity to be authorized and/or licensed to do business with this State. Notwithstanding the fact that applicable statutes may exempt or exclude the successful bidder from requirements that it be authorized and/or licensed to do business in this State. By submission of a bid, the bidder agrees to subject himself to the jurisdiction and process of the courts of the State of South Carolina as to all matters and disputes arising or to arise under the contract and the performance thereof, including any questions as to the liability for taxes, licenses or fees levied by the State of South Carolina.
- 36. Quality of Product: (This general condition does not apply to solicitations for printing or service requirements.) Unless otherwise indicated in this solicitation, it is understood and agreed that any item offered or shipped as a result of this solicitation shall be new and in first class condition, that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging. If items that are other than new (i.e., remanufactured or refurbished) are desired to be bid, the bidder must obtain written permission to bid such items at least five days in advance of the bid opening date. Written permission must be obtained from the DHEC Procurement Office.
- 37. **Compliance with Federal Requirements:** S.C. State or Federal requirements that are more restrictive shall be followed in bidding, awarding and performance of this contract.
- 38. **Drug-Free Workplace**: Required by Section 44-107-10 (Drug Free Work-Place Act) of the SC Code of Laws, 1976, as amended. By submission of a bid, the bidder certifies that he will comply with all aspects of the Drug-Free Workplace Act and will not engage in the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance in the performance of this contract. This certification also applies to any individual or firm employed by the contractor.
- 39. **Confidentiality Policy:** The successful contractor agrees to abide by DHEC's policy of confidentiality which states in part that all information as to personal facts and circumstances given or made available to employees and/or contractors of DHEC in administration of programs shall be held confidential and shall not be divulged without the express written consent of the individual(s) to which it pertains.
- 40. **Item Substitution:** No substitution of items will be allowed on any purchase made from the awarded contract without written permission from the DHEC Procurement Office.
- 41. **Outside Contractor Program:** If applicable to scope of contract, contracted employees working on DHEC properties are entitled to information about hazardous chemicals present at DHEC; and DHEC's personnel are entitled to information about hazardous chemicals brought to the facilities by contractors. In order to assure continued compliance with the Hazard Communication Standards while contractors are on DHEC property and to control potential compliance obligations under the Superfund Amendments and Re-authorization Act, it is DHEC's policy to:
 - A. Obtain <u>written assurance</u> that the contractor's employees have been trained to understand the hazards of the chemicals at DHEC and how to use appropriate personal protective equipment. All personal protective equipment and training required for the contractor's employees will be provided by the contractor at the contractor's expense. (This includes SC State General Services employees).
 - B. Require the contractor to notify the DHEC Bureau of Business Management or the appropriate DHEC unit Director when introducing hazardous chemicals into DHEC work areas, which may harmfully expose DHEC employees. If the contractor is introducing such hazardous chemicals into any DHEC facility or onto DHEC property, the contractor shall provide the DHEC Division of Procurement Services or the DHEC unit Director copies of the Material Safety Data Sheets (MSDS) for those chemicals. The DHEC Division of Procurement Services or the DHEC unit Director should provide appropriate information to the DHEC employees before the contractor(s) enter any DHEC facility with chemicals.
 - C. DHEC reserves the right to refuse to allow any contractor to bring any chemical onto DHEC property. The Department also reserves the right to refuse to allow any contractor to bring certain quantities of chemicals on DHEC property.

Appendix A Village Grocery

UST Permit #14548

IFB-31016-11/28/06-EMW

Village Grocery, UST Permit #14548

TABLE 1

Distribution List for Plans and Reports - The names and addresses are subject to change as properties are bought and sold.

FORMER UST OWNER

Berry Fisk, deceased

PROPERTY OWNERS

115-00-00-120	Ruby Fisk, 4708 Jeffries Hwy., Walterboro, SC 29488
115-00-00-90	Ruby Fisk, 4708 Jeffries Hwy., Walterboro, SC 29488
115-00-00-121	Derrall & Julie Altman, 203 Culpepper Ln., Walterboro, SC 29488
115-00-00-119	Industrial Tractor Co., 6870 Phillips Hwy., Jacksonville, Fl 32216
114-00-00-006	Kathleen Harwood, c/o Carol Simmons, 3 Dogwood Ln., Walterboro, SC 29488
115-00-00-089	Yvonne & Harry Bird, PO Box 526, Walterboro, SC 29488
115-00-00-157	Hurley & Shirley Driggers, 2850 Jones Swamp Rd., Walterboro, SC 29488
115-00-00-091	Charles Bartlett, 1715 Maple Ridge Rd., Walterboro, SC 29488
115-00-00-078	William Southard, PO Box 93, Ruffin, SC 29475

SCDHEC IFB-31016-11/28/06-EMW

Village Grocery, UST Permit #14548

TABLE 2
CoC mass in parts per billion (µg/l) based on August 3 and 10, 2006 sampling: (CoC may increase or decrease in the future)

Well	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	МТВЕ	EDB	Total Mass
MW- 1	6	29	390	415	65	<10	<0.02	915.02
MW- 2	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW-3	7,000	23,000	1,700	22,100	1,100	<1,000	53	55,953
MW- 4	<5	<5	10	<15	12	<5	<0.02	52.02
MW- 5	<5	<5	<5	<15	<5	<5	<0.02	
MW- 6	<5	<5	<5	<15	40	<5	<0.02	75.02
MW- 7	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW- 8	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW- 9	820	3,700	620	3,400	130	44	1.2	8,715.2
MW- 10	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW- 11	<5	<5	<5	<15	<5	<5	<0.02	
MW- 12	93	3,200	1,400	11,700	420	<25	<0.02	16,838.02
MW- 13	480	6,100	2,000	11,500	320	<250	<0.02	20,650.02
MW- 14	<5	<5	<5	<15	<5	<5	<0.02	
MW- 15	<5	<5	<5	<15	<5	<5	<0.02	
MW- 16	<5	<5	<5	<15	<5	<5	<0.02	
MW- 17	<5	<5	<5	<15	<5	<5	<0.02	
MW- 18	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW- 20	720	2,900	500	2,200	150	53	0.06	6,523.06
MW- 21	<5	<5	<5	<15	<5	<5	<0.02	
MW- 22	<5	<5	<5	<15	<5	<5	<0.02	
MW- 23	<5	<5	<5	<15	<5	<5	<0.02	
MW- 24	<5	<5	<5	<15	<5	<5	<0.02	
MW- 25*	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW- 26*	110	6	31	250	13	31	<0.02	441.02
MW- 27	260	12	83	430	41	73	<0.02	899.02

SCDHEC IFB-31016-11/28/06-EMW Page: 24

MW- 28*	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW- 29	100	<5	<5	38	6	32	<0.02	186.02
MW- 30*	<5	<5	<5	<15	<5	<5	<0.02	40.02
MW- 31*	<5	<5	<5	<15	<5	<5	<0.02	
MW- 32	<5	22	<5	<15	<5	<5		
MW- 33*	<5	<5 .	<5	<15	<5	<5	<0.02	
MW- 34	<5	<5	<5	<15	<5	<5		
MW- 35	<5	<5	<5	<15	<5	<5	<0.02	
MW- 36	<5	<5	<5	<15	<5	<5	<0.02	
MW- 37	<5	<5	<5	<15	<5	<5	<0.02	
TW- 1	<5	<5	<5	<15	<5	<5	<0.02	40.02
TW- 2	190	610	170	660	24	13	<0.02	1,667.02
TW- 3	<5	<5	<5	<15	<5	<5	<0.02	
TW- 4	<5	<5	<5	<15	<5	<5	<0.02	
TW-5	<5	<5	<5	<15	<5	<5	<0.02	40.02
TW- 6	<5	<5	<5	<15	<5	<5	<0.02	
WSW-1	<5	<5	<5	<15	<5	<5	<0.02	40.02
WSW- 2	<5	<5	<5	<15	<5	<5	<0.02	40.02
WSW- 9	<5	<5	<5	<15	<5	<5	<0.02	40.02
Initial Mass ⁷⁾	9,854	39,637	6,979	52,918	2,386	1,606	54.7	113,434.7
SSTL Mass	594	15,100	6,979	52,498	625	548	11.46	76,355.46
Initial Mass above SSTL	9,260	24,537	0	420	1,761	1,058	43.24	37,079.24

¹⁾ On August 3 and 10, 2006, MW-25, 26, 28, 30, 31, and 33 were dry. The reported data is from the sampling event on January 10, 2006.

SCDHEC

IFB-31016-11/28/06-EMW

²⁾ CoC mass may change due to seasonal fluctuations in the groundwater. The Initial Mass is calculated only for those monitoring wells that are in **bold**.

Village Grocery, UST Permit #14548

TABLE 3

Site-specific target levels (SSTLs) in parts per billion (ug/l)

Well	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	EDB
MW- 1	6*	29*	390*	415*	64	10**	0.02**
MW- 2	5**	5**	5**	15**	5**	5**	0.02**
MW- 3	40	2,979	1,700*	21,680	67	98	9.76
MW- 4	5**	5**	10*	15**	12*	5**	0.02**
MW- 6	5**	5**	5**	15**	40*	5**	0.02**
MW- 7	5**	5**	5**	15**	5**	5**	0.02**
MW- 8	5**	5**	5**	15**	5**	5**	0.02**
MW- 9	26	2,476	620*	3,400*	57	44*	1.2*
MW- 10	5**	5**	5**	15**	5**	5**	0.02**
MW- 12	93*	3,200*	1,400*	11,700*	91	25**	0.02**
MW- 13	35	2,808	2,000*	11,500*	64	94	0.02**
MW- 18	5**	5**	5**	15**	5**	5**	0.02**
MW- 20	67	2,900*	500*	2,200*	81	53*	0.06*
MW- 25	5**	5**	5**	15**	5**	5**	0.02**
MW- 26	40	6*	31*	250*	13*	31*	0.02**
MW- 27	59	12*	83*	430*	41*	73*	0.02**
MW- 28	5**	5**	5**	15**	5**	5**	0.02**
MW- 29	86	5**	5**	38*	6*	32*	0.02**
MW- 30	5**	5**	5**	15**	5**	5**	0.02**
TW- 1	5**	5**	5**	15**	5**	5**	0.02**
TW- 2	67	610*	170*	660*	24*	13*	0.02**
TW-5	5**	5**	5**	15**	5**	5**	0.02**
WSW-1	5**	5**	5**	15**	5**	5**	0.02**
WSW- 2	5**	5**	5**	15**	5**	5**	0.02**
WSW- 9	5**	5**	5**	15**	5**	5**	0.02**
Total	594	15,100	6,979	52,498	625	548	11.46

SCDHEC

IFB-31016-11/28/06-EMW

- Laboratory analysis is less than calculated SSTLs; therefore, SSTL mass is set equal to laboratory mass. Laboratory analysis is below detection limits; therefore, SSTL mass is set equal to detection limits.
- **

SCDHEC IFB-31016-11/28/06-EMW

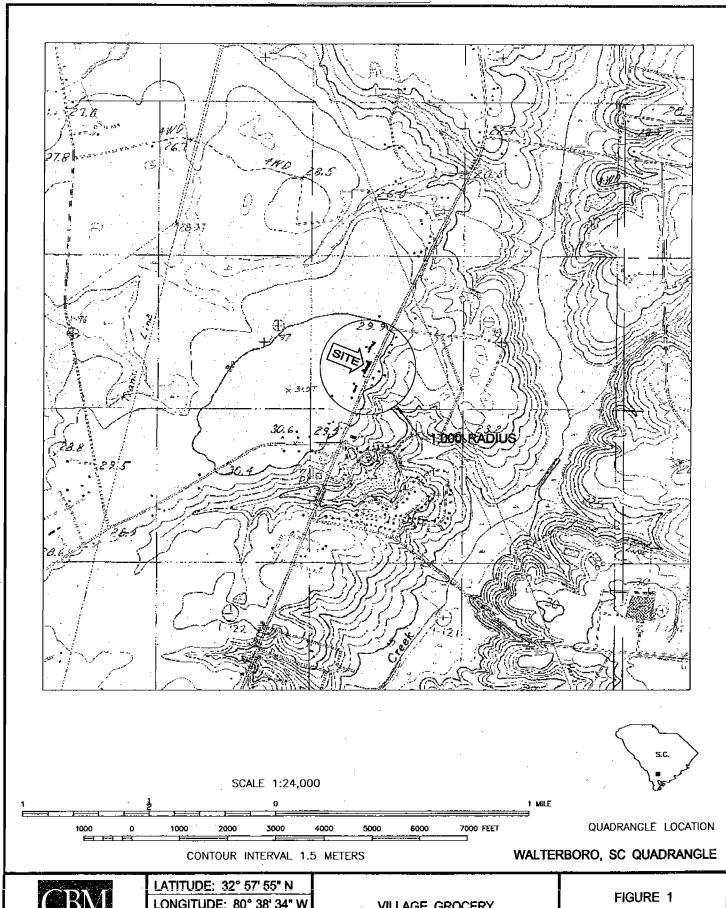
Village Grocery, UST Permit #14548

 TABLE 4
 Analytical Parameters

Analyte	Analytical Method	Reporting Limit (µg/l)
BTEX**	8260B/5030B	5
Naphthalene**	8260B/5030B	5
MTBE**	8260B/5030B	5
EDB	8011	0.02

^{**}The UST Program no longer accepts equivalent methods for VOC Analysis.

SCDHEC IFB-31016-11/28/06-EMW Page: 28





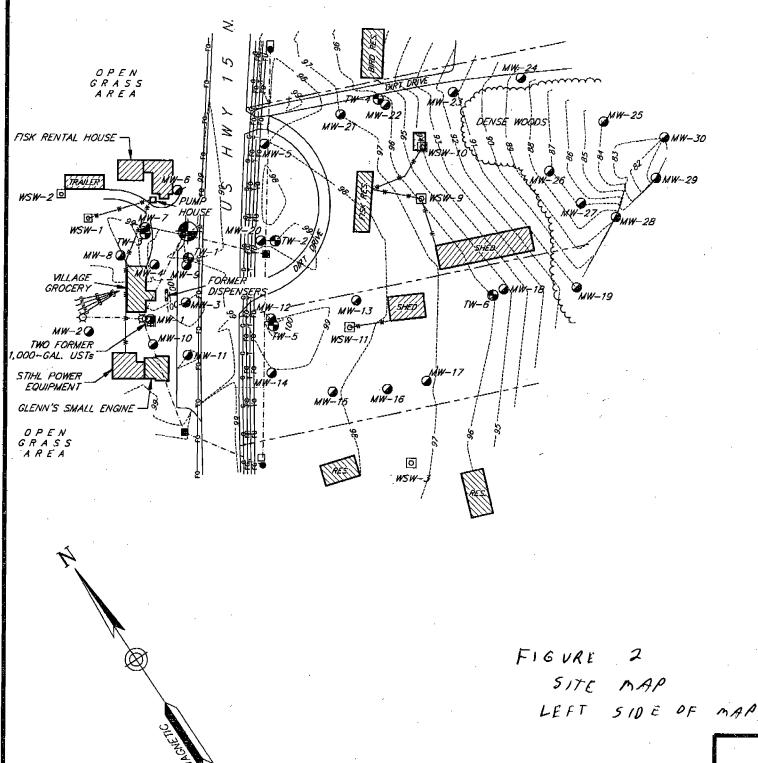
LONGITUDE: 80° 38' 34" W DRAWN BY: AWB

CHECKED BY: MM

DATE: 2/13/06

VILLAGE GROCERY 4685 JEFFERIES HWY WALTERBORO, SC SITE ID NO. 14548

USGS TOPOGRAPHIC MAP CBM PROJECT NO. 10802



NOTE: FIELD SURVEY CONDUCTED ON AUGUST 10, 2005 BY TRICO ENGINEERING CONSULTANTS, INC. UNDER THE SUPERVISION OF RICHARD A. ALDRIDGE, S.C.P.L.S. NO. 20854.

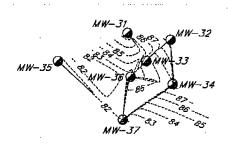


FEET

-25 MW-3

MW-25

DENSE WOODS/_______



SHALLOW MONITORING WELL TELESCOPING MONITORING WELL LIGHT POLE TELEPHONE PEDESTAL WATER SUPPLY WELL - POWER POLE & OVERHEAD POWER LINE PROPERTY LINE FIBER OPTIC LINE NATURAL GAS LINE SEPTIC TANK DRAIN FIELD TELEPHONE LINE PRIVATE WATER LINE -- TOPOGRAPHIC CONTOUR W/ELEVATION (ft) BOLT BETWEEN CITY AND STATE ON FIRE HYDRANT; ASSUMED EL=100.00'

RIGHT SIDE OF MAP



SITE I.D. NO. 14548

CBM PROJECT NO. 10802

DRAWN BY: AWB

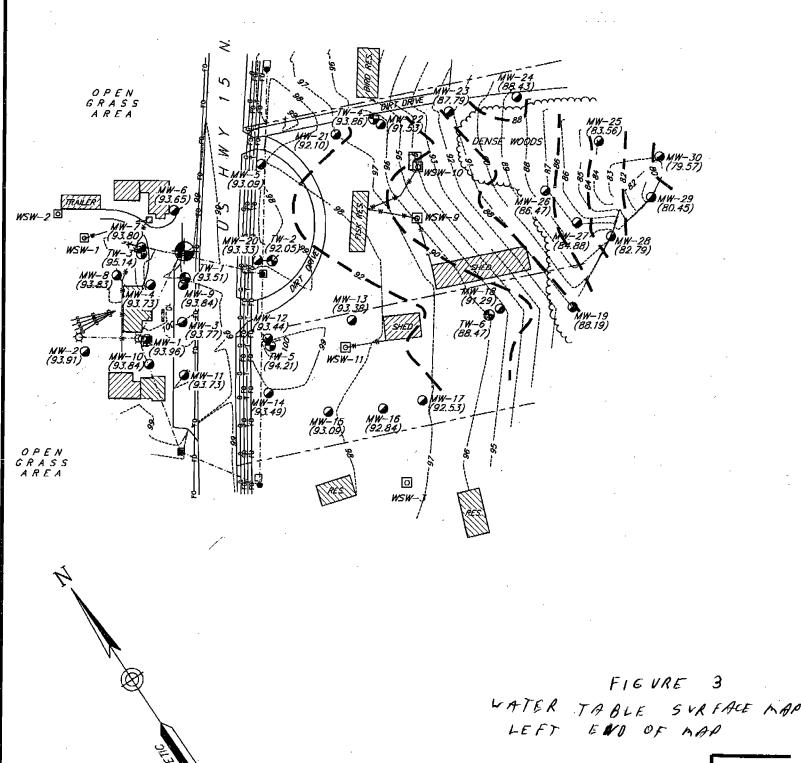
CHECKED BY: MM

DWG DATE: 2/7/06

VILLAGE GROCERY 4685 JEFFERIES HWY WALTERBORO, SC

SITE MAP

FIGURE 2

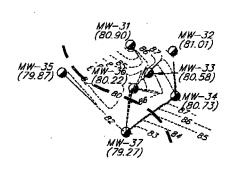




FEET

NOTE: FIELD SURVEY CONDUCTED ON AUGUST 10, 2005 BY TRICO ENGINEERING CONSULTANTS, INC. UNDER THE SUPERVISION OF RICHARD A. ALDRIDGE, S.C.P.L.S. NO. 20854.

DENSE WOODS,



LEGEND SHALLOW MONITORING WELL TELESCOPING MONITORING WELL LIGHT POLE TELEPHONE PEDESTAL WATER SUPPLY WELL POWER POLE & OVERHEAD POWER LINE PROPERTY LINE FIBER OPTIC LINE NATURAL GAS LINE SEPTIC TANK DRAIN FIELD TELEPHONE LINE PRIVATE WATER LINE - TOPOGRAPHIC CONTOUR W/ELEVATION (ft) BENCHMARK: BOLT BETWEEN CITY AND STATE ON FIRE HYDRANT; ASSUMED EL=100.00'

(93.96)

WATER TABLE SURFACE CONTOUR (FEET)

GROUNDWATER ELEVATION IN FEET

NOTE: TELESCOPING MONITORING WELLS NOT USED IN CONTOURING

RIGHT END OF MAR



SITE I.D. NO. 14548

CBM PROJECT NO. 10802

DRAWN BY: AWB

CHECKED BY: MM

DWG DATE: 2/13/06

WATER TABLE SURFACE MAP **JANUARY 9, 2006**

> VILLAGE GROCERY 4685 JEFFERIES HWY WALTERBORO, SC

FIGURE 3

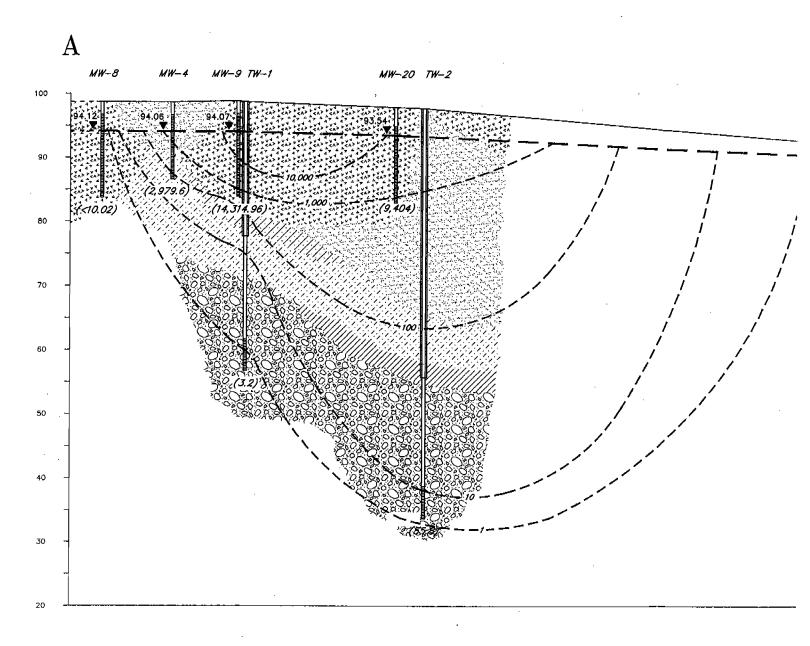
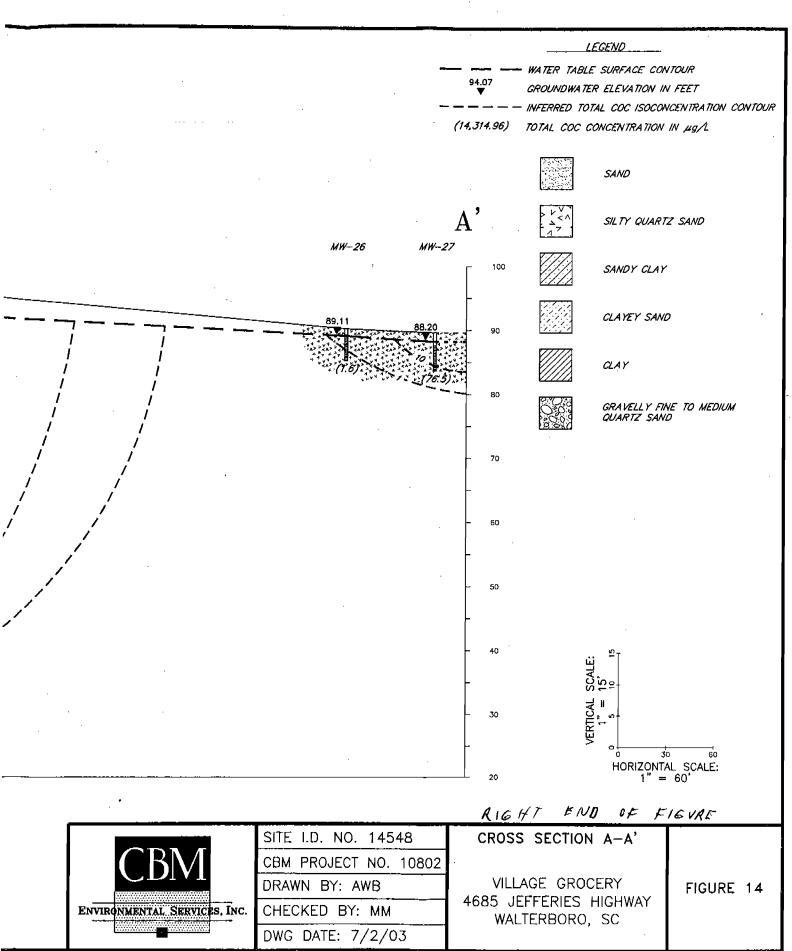
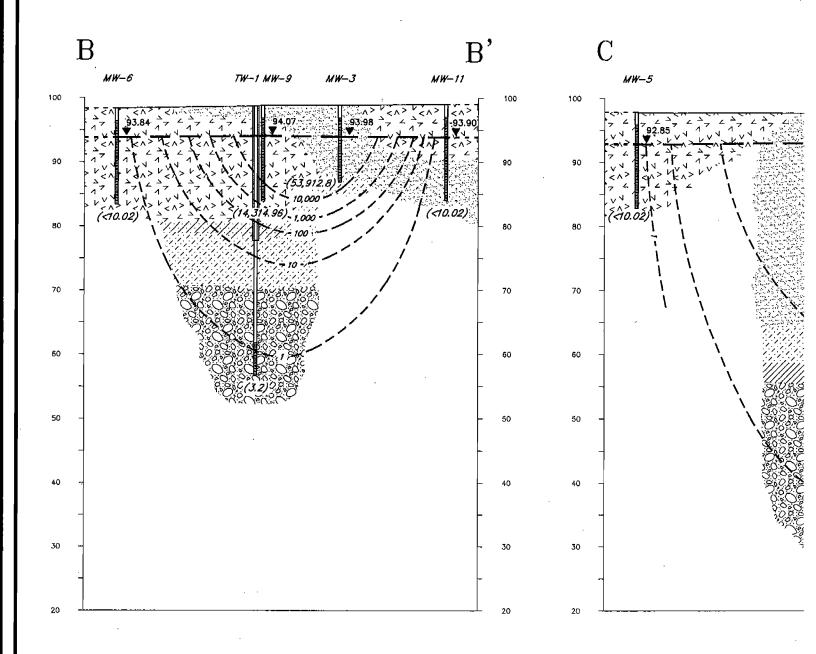


FIGURE 14 CROSS SECTION A-A' LEFT END OF FIGURE





SCDHEC IFB-31016-11/28/06-EMW Page: 35



CAOSS SECTION C-C'

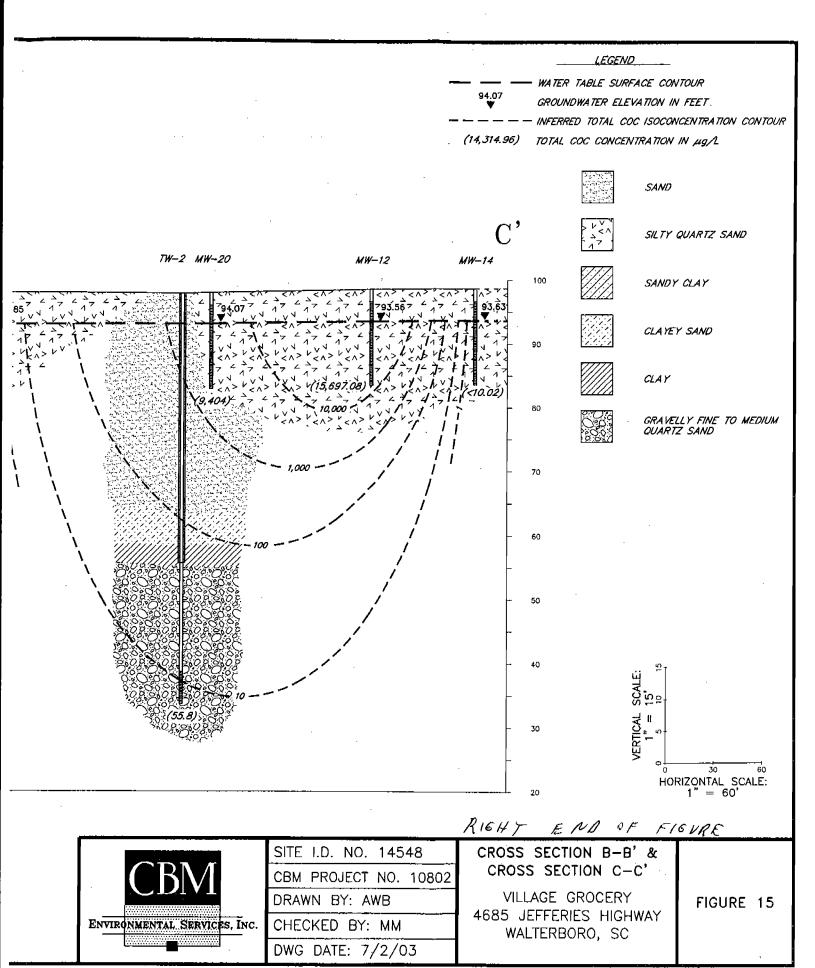
LEFT END OF FIGURE

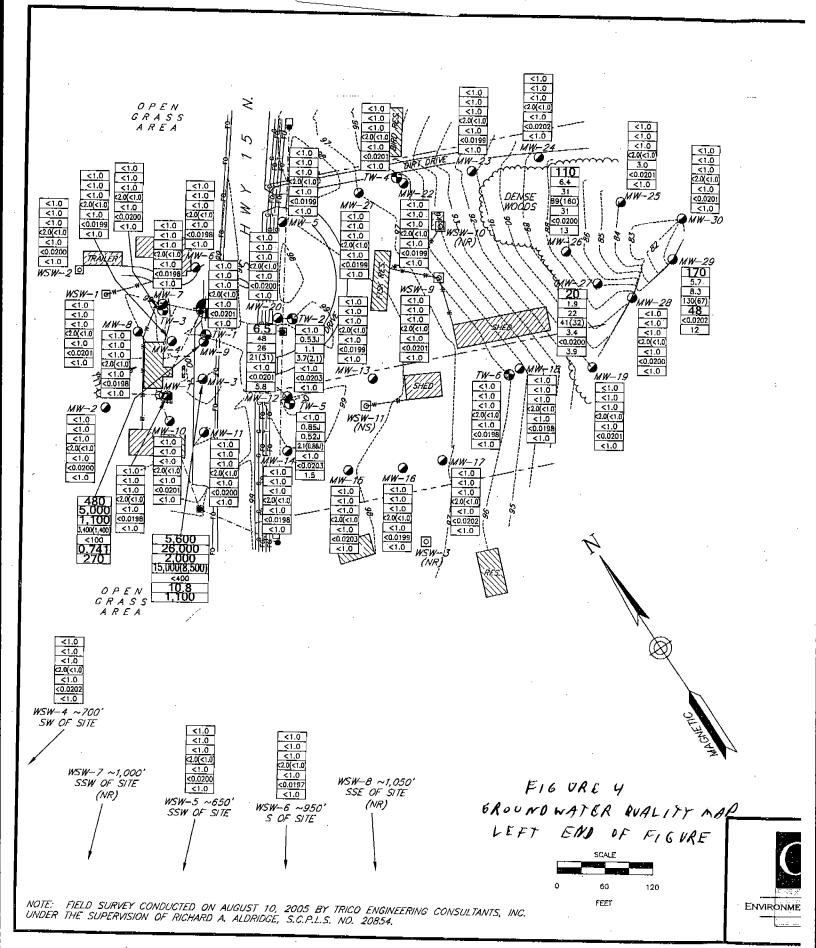
SCDHEC
IFB-31016-11/28/06-EMW
Page: 36

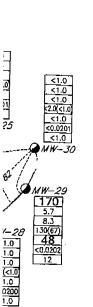
FIEURE 15

CROSS SECTION B-B'









DENSE WOODS/

<1.0 < 0.0197 <1.0 <1.0 <1.0 <2.0(<1.0

SHALLOW MONITORING WELL TELESCOPING MONITORING WELL

☆ LIGHT POLE

TELEPHONE PEDESTAL

WATER SUPPLY WELL

POWER POLE & OVERHEAD POWER LINE

PROPERTY LINE

FIBER OPTIC LINE

NATURAL GAS LINE

SEPTIC TANK DRAIN FIELD

TELEPHONE LINE

PRIVATE WATER LINE

TOPOGRAPHIC CONTOUR W/ELEVATION (ft)



BENCHMARK: BOLT. BETWEEN CITY AND STATE ON FIRE HYDRANT; ASSUMED EL=100.00'

BENZENE TOLUENE ETHYLBENZENE 10,000 XYLENES 40 MTBF 0.05 EDB 25 NAPHTHALENE

CONCENTRATIONS IN 49/L

ABOVE CONCENTRATIONS REPRESENT MAY 2001 RISK—BASED SCREENING LEVELS; CONCENTRATIONS IN BOLD FACE TYPE EXCEEDED THE RBSL

<1.0 — LESS THAN THE REPORTING LIMIT SPECIFIED IN THE LABORATORY

J -- VALUE BETWEEN THE METHOD DETECTION LIMIT & THE REPORTING LIMIT

90(53) - M,P-XYLENES(O-XYLENE)

(NR) - ANALYSIS NOT REQUESTED

(NS) - NOT SAMPLED



SITE I.D. NO. 14548

CBM PROJECT NO. 10802

DRAWN BY: AWB

CHECKED BY: MM

DWG DATE: 2/13/06

END OF PIGURE GROUNDWATER QUALITY MAP JANUARY 9-11, 2006

RIGHT

VILLAGE GROCERY 4685 JEFFERIES HWY WALTERBORO, SC

FIGURE 4

TABLE 1 SUMMARY OF GROUNDWATER ELEVATION DATA¹ VILLAGE GROCERY

Well ID	Date	Top of Casing	Depth to	Groundwater	Well Depth	Screened
	Measured	Elevation	Groundwater	Elevation		Interval
	3/31/2003		4.62	94.17		
MW-1	11/29/2004	98.79	6.32	92.47	12	2-12
1,1,,	7/25/2005	30,73	3.65	95.14		- -
	1/9/2006		4.83	93.96		
	3/31/2003	·.	5.22	93.93		
MW-2	11/29/2004	99.15	6.65	92.50	12	2-12
172 77 2	7/25/2005	75.15	3.91	95.24		
	1/9/2006		5.24	93.91		
	3/31/2003		4.91	93.98		
MW-3	11/29/2004	98.89	6.65	92.24	12	2-12
141 44 -2	7/25/2005	70.07	3.92	94.97	12	2 12
	1/9/2006		5.12	93.77		
	3/31/2003		4.59	94.06		
MW-4	11/29/2004	98.65	6.35	92.30	12	2-12
TAY AA4	7/25/2005	98.03	3.60	95.05	1. 2	2-12
	1/9/2006		4.92	93.73	·	
	3/31/2003		. 5.00	92.85	*	
MW-5	11/29/2004	07.05	6.17	91.68	15	2-15
IVI VV -3	7/25/2005	97.85 [*]	3.75	94.10	. 15	2-10
	1/9/2006	¥5	4.76	93.09		
	3/31/2003		4.56	93.84		
3 6777 6	11/29/2004	00.40	6.28	92.12	1.5	2.15
MW-6	7/25/2005	98.40	3.60	94.80	15	2-15
	1/9/2006		4.75	93.65		
 	3/31/2003		4.72	93.96		
1007.7	11/29/2004	00.60	6.50	92.18	. 15	2-15
MW-7	7/25/2005	98.68	3.68	95.00	15	∠-13
	1/9/2006		4.88	93.80		
	3/31/2003	·-·	4.57	94.12	:	-
3.637.0	11/29/2004	. 00.60	6.36	92.33	1.5	2.15
MW-8	7/25/2005	98.69	3.53	95.16	15	2-15
	1/9/2006	• •	4.86	93.83		
	3/31/2003	e ^s	4.82	94.07		
	11/29/2004		6.74	92.15	1.5	2.15
MW-9	7/25/2005	98.89	4.00	94.89	15	2-15
	1/9/2006		5.05	93.84		

	Date	Top of Casing	Depth to	Groundwater	Well Depth	Screened
Well ID	Measured	Elevation	Groundwater	Elevation		Interval
-	3/31/2003		4.97	93.99		
3.6777.10	11/29/2004	98.96	6.65	92.31	15	2-15
MW-10	7/25/2005	98.90	3.95	95.01	13	2 13
	1/9/2006		5.12	93.84		
	3/31/2003		5.17	93.90		•
MW-11	11/29/2004	99.07	6.80	92.27	. 15 .	2-15
MW-11	7/25/2005	99.07	4.17	94.90	13	_ 15
	1/9/2006		5.34	93.73		
	3/31/2003		4.97	93.56		
) (W. 10	11/29/2004	98.53	6.55	91.98	15	2-15
MW-12	7/25/2005	98.33	4.12	94.41	13	2.13
	1/9/2006		5.09	93.44		
	3/31/2003		4.94	93.07		
N 6777 10	.11/29/2004	08.01	6.55	91.46	15	2-15
MW-13	7/25/2005	98.01	4.35	93.66	15	. 213
·	1/9/2006		4.63	93.38		
	3/31/2003		5.02	93.63		
	11/29/2004	0.0.65	6.66	91.99	15	2-15
MW-14	7/25/2005	98.65	4.15	94.50	15.	2-1,5
	1/9/2006		5.16	93.49	·	
,	3/31/2003		5.11	92.73		
	11/29/2004	07.04	6.22	91.62	15	2-15
MW-15	7/25/2005	97.84	3.90	93.94		2-13
	1/9/2006		4.75	93.09		
	3/31/2003		5.62	91.79		
	11/29/2004	07.41	6.05	91.36	1.5	2-15
MW-16	7/25/2005	97.41	3.91	93.50	15	2-13
	1/9/2006	1	4.57	92.84		
	3/31/2003		5.36	91.62		
	11/29/2004	0.600	5.95	91.03	15	2-15
MW-17	7/25/2005	96.98	3.91	93.07	15	2-13
	1/9/2006	1	4.45	92.53]	· · · ·
	3/31/2003		3.53	91.65		
	11/29/2004	1 05.50	5.15	90.03	1	2 15
MW-18	7/25/2005	95.18	3.70	91.48	15	2-15
·	1/9/2006		3.89	91.29	1 '	

Well ID	Date	Top of Casing	Depth to	Groundwater	Well Depth	Screened
*** CIL 1.13	Measured	Elevation	Groundwater	Elevation		Interval
	3/31/2003		2.09	88.50	·	
MW-19	11/29/2004	90.59	3.25	87.34	15	2-15
IV1 VV -1 7	7/25/2005	70.37	2.45	88.14	13	- 10
	1/9/2006		2.40	88.19		
	3/31/2003		4.37	93.54		
MW-20	11/29/2004	97.91	6.05	91.86	15	3-15
IVI VV -20	7/25/2005	97,91	3.57	94.34	15	3 13
	1/9/2006		4.58	93.33		·
	3/31/2003		4.61	92.16		
N 4337 O 1	11/29/2004	96.77	5.80	90.97	15	3-15
MW-21	7/25/2005	90.77	4.05	92.72	15	5-15
	1/9/2006		4.67	92.10	•	
	3/31/2003		2.57	91.78		
1 ATT 00	11/29/2004	04.25	3.62	90.73	15	3-15
MW-22	7/25/2005	94.35	2.45	91.90	13	2-13
	1/9/2006		2.82	91.53		
	3/31/2003		1.64	89.36		,
) (TV 02	11/29/2004	01.00	0.96	90.04	7	2-7
MW-23	7/25/2005	91.00	0.08	90.92	/	2-7
	1/9/2006	1	3.21	87.79		
	3/31/2003		1.34	90.39		
	11/29/2004	01.72	2.85	88.88	7.	2-7
MW-24	7/25/2005	91.73	3.81	87.92	/ ·	∠-1
	1/9/2006	1 .	3.30	88.43		
	3/31/2003		1.32	85.59		-
	11/29/2004	06.01	3.97	82.94		1-4
MW-25	7/25/2005	86.91	3.91	83.00	4	1-4
	1/9/2006	1	3.35	83.56		
	3/31/2003		1.12	89.11		
3 5777 0 6	11/29/2004	00.00	4.23	86.00	بي	1.5
MW-26	7/25/2005	90.23	4.91	85.32	5	1-5
	1/9/2006		3.76	86.47		
	3/31/2003		1.44	88.20		
	11/29/2004	00.54	5.12	84.52		2.6
MW-27	7/25/2005	89.64	5.45	84.19	6	2-6
	1/9/2006	1	4.76	84.88	1	

SCDHEC

IFB-31016-11/28/06-EMW Page: 42

	Date	Top of Casing	Depth to	Groundwater	Well Depth	Screened
Well ID	Measured	Elevation	Groundwater	Elevation		Interval
	11/29/2004		6.35	82.44		
$MW-28^2$	7/25/2005	88.79	6.58	82.21	· 4	1-4
	1/9/2006		6.00	82.79		
_	11/29/2004		4.50	80.39	•	1.4
$MW-29^2$	7/25/2005	84.89	4.69	80.20	4 .	1-4
	1/9/2006		4.44	80.45		
$MW-30^3$	7/25/2005	83.01	3.85	79.16	6	. 1-6
W -30	1/9/2006	03.01	3.44	79.57		
	7/25/2005	97.92	6.25	81.58	6	1-6
MW-31 ³	1/9/2006	87.83	6.93	80.90		
	7/25/2005		5.81	82.78	(1-6
$MW-32^3$	1/9/2006	88.59	7.58	81.01	6	1-0
	7/25/2005		6.88	80.27		1.6
MW-33 ³	1/9/2006	87.15	6.57	80.58	6	1-6
	7/25/2005		6.83	81.49		1-6
MW-34 ³	17972006	88.32	7.59	80.73	6	1-0
	7/25/2005	00.64	5.55	78.09	6	1-6
MW-35 ³	1/9/2006	83.64	3.77	79.87		120
3	7/25/2005	0.6.00	3.65	82.57	6	1-6
MW-36 ³	1/9/2006	86.22	6.00	80.22		1-0
3	7/25/2005	95.52	5.85	79.67	6	1-6
MW-37 ³	1/9/2006	85.52	6.25	79.27	U	1-0
 _	3/31/2003		5.32	93.44		
4	11/29/2004	98.76	7.78	90.98	42	37-42
TW^4-1	7/25/2005	7 98.70	4.12	94.64	72	3, 12
	1/9/2006		5.25	93.51		
	3/31/2003		5.41	92.35		
TW-2	11/29/2004	97.76	7.72	90.04	64	59-64
1 AA -7	7/25/2005		4.65	93.11		·
	1/9/2006		5.71	92.05		
	11/29/2004	1	7.52	92.44		45.50
TW-3	7/25/2005	99,96	3.55	96.41	50	45-50
	1/9/2006		4.82	95.14	· ·	<u> </u>

Well ID	Date Measured	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Depth	Screened Interval
	11/29/2004		3.35	92.97		
TW-4	7/25/2005	96.32	2.19	94.13	53	48-53
	1/9/2006		2.46	93.86		
	11/29/2004		9.65	90.41		
TW-5	7/25/2005	100.06	4.85	95.21	48	43-48
	1/9/2006	1	5.85	94.21		
	11/29/2004		8.58	87.36		
TW-6	7/25/2005	95.94	6.97	88.97	60	55-60
•	1/9/2006	1	7.47	88.47		

Notes:

- 1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.
- 2. Monitoring wells MW-28 and MW-29: stick-up monitoring wells in which the total PVC lengths were approximately eight feet with four feet below ground surface; depths to groundwater and groundwater elevation data are relative to the surveyed top of PVC casing elevations.
- 3. Monitoring wells MW-30 through MW-37: stick-up monitoring wells with approximate total PVC lengths as follows: MW-30 = 7 feet; MW-31 = 9 feet; MW-32 = 8 feet; MW-33 = 10 feet; MW-34 = 8 feet; MW-35 = 8 feet; MW-36 = 7 feet; MW-37 = 9 feet. All wells were installed to six feet below ground surface; depths to groundwater and groundwater elevation data are relative to the surveyed top of PVC casing elevations.
- 4. Telescoping monitoring well.

Village Grocery, UST Permit #14548 Historical data summary

Release reported December 23, 1991, 2 USTs removed June 29, 1992

8		2.2	-	1.72	12.9	1.72			2.4	<u>+</u>		28.9	2.18			9.0	0.4	1.64	6.7	9:			0.8	0.8	1.43	80	2.05					
FE+2 Methane		² 29	² 56						<26	~ 56						<26	88						<26	47								
FE+2		1.43	<u></u>		3.04				1.43	0.213		<u>۲</u> .				1.02	1.07		2.47				2.79	2.08		0.516						
Sulfate		14.10	18.30		17.70				14.50	25.80		11.9				10.10	1.65		2.57				3.74	2.08		4.60						
Nitrate		1.31	0.59		, ,				0.53	.		<.1				0.85	. .		<.1				×.1	<u>``</u>		<.1						
Lead	280	160	22	240	δ	3			80	7		<5	ς,			100	160	200	<5	14			009	70	200	70	3					
EDB	<20	<20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<2	<0.02		<0.02	<0.02	<0.02	<0.02	<20	12.20	17.30	29.00	09.9	10.80	53.00	100.00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
1,2-DCA								<10							<5							<1,000							<5			
MTBE	<20	<20	₹	/	 	\	\	<10	<2	 		\	\	₹	<5	<20	46	48	205	200	<400	<1,000	<100	₹	^	\	<1	۲	<5			
Naph.	490	189	30	77	91	~ 1	<1	65	<2	<5		<5	V	⊽	\$	101	999	938	1,540	1,200	1,100	1,100	735	158	77	09	22	٧	12			
Xylenes	15,000	7,520	530	1,180	2,510	8	<3	415	<2	۱>		 	8	8	<15	1,180	17,000	20,000	27,800	22,100	24,000	22,100	17,900	2,080	476	394	73	\$	<15			
Ethylbenzene	2,300	1,550	123	312	458	₹		390	<2	₹	g	⊽	₹	₹	\$	278	3,040	3,100	1,970	2,800	2,000	1,700	4,180	511	174	176	24	\	10			
Toluene	8,200	3,700	210	400	612	⊽	⊽	29	\$	⊽	well not found	⊽	₹	₹	\$	39	27,800	24,500	29,200	26,000	26,000 '	23,000	10,400	178	22	35	2	⊽	<5		-	
Benzene	450	609	4	5	6	₹	₹	9	 ♡	۲	we	\ \ \	⊽	₹	\$	~50 ~50	5,350	5,300	8,650	5,000	5,600	7,000	4,580	53	ဗ	2	₹	⊽	.δ.			
WTO	7.46	5.51	4.62	3.04	6.32	3.65	4.83	7.74	5.78	5.22		6.65	3.91	5.24		5.44	4.91	3.49	6.65	3.92	5.12	7.99	5.8	4.59	3.15	6.35	3.6	4.92				
Date	6/29/2000	3/28/2001	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	3/28/2001	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/10/2006	3/28/2001	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	3/28/2001	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/10/2006			
Well	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4		4-WM	ı	l			

1.2	0.62	20.7	2.51			-	172	2 6	5. S	3.29				0.08	2.24	22.2	2.91			100	1.27	2.61	21.8	3.03		ı	c	136	12.1	2.44				1.01	1.84	27.2	3.85			
<26																				Ş	4 56						3	٥]	² 56						
0.215		×.1						,	<u>.</u>							<u>.</u>				000	0.202		0.118				0.027	1.8.0	0.198					0.63		۰ <u>.</u>				
7.22		4.26						2	0.21							18				0	32.80		16.5				07.01	10.50	19.6					13.8		6.16				
0.23		<.1							0.41							1.77					4.68		8.16				3	2.41	0.28				,	69.0		0.24				
80	09	<5	<3			250	007	3 4	€	3				210	460	گ	က				430	210	28	8			- 55	7007	3 8	ç			,	260	320	~ 5	₽			
<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	50	70:05	70.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ç	3.40	1.07	0.51	0.74	1.20		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
					\$							<5							\$							\$						<12							<5	
<u>~</u>	₹	1	<را	, ,	\$	\ ;	7	7	<u>-</u>	, \	<1>	<2		7	^	~	~ 1	7	~ ?	,	<u>\</u>	₹	<1	7	₹	\$	8	77 26	46	180	<100	44		₹	<u>^</u>	₹	₹	₹	<5	
\$	\$	<5	<u>۲</u>	\	<5	r/	9 4	Ç)	\$	~	\	40		<5	<5	<5	<1	~ 1	<5		ζ.	Ą.	<5	\	₹	ζ,	į	4/0	450	310	270	130		Ą	\$	₽	₹	∑	<5	
₹	⊽	₹	છ	<3	<15	7	7 3	. ·	V	<3	<3	<15	-	<1	<1	\	<3	<3	<15	,	₹	√	~ 1	<3	8	<15		6,100	8.020	5,900	4,800	3,400		Ÿ		₹	8	8	<15	
-⊽	₹	>	₹	<1	<5	,	· \	· ·	\ <u>\</u>	<1	<1	<5		<1.	۲	<1	<1	<1	<5		₹	۷,	<1	<1	<1	<5		960	1,560	890	1,100	620		₹	۲	7	,	<1	<5	
₹	⊽	⊽	⊽	√	\$	7	→	<u></u>	₹	۲,	₹	\$		<1	~	~	<1	<1	<5		₹	۲>	<1	<1		_گ	100	4,870	8.320	5,100	5,000	3,700		\	~ 1	~ 1	~	1	<5	
₹	⊽	⊽	⊽	\	<5	,	√ \	<u>.</u>	₹	۷,	⊽	<5		<1	۲	~	<1	!>	<5	,	₹	~	~ 1	<1	~1	\$		1,860	2,080	1,400	480	820		~	۲>	<1	₹	7	<5	
5	3.38	6.17	3.75	4.76	7.45		4.30	3.19	6.28	3.6	4.75	7.61		4.72	3.24	6.5	3.68	4.88	7.8		4.57	3.04	98'9	3.53	4.86	7.75	-	4.82	6.74	4	5.05	8.04		4.97	3.55	6.65	3.95	5.12	8.05	
4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	4 (4 /0000	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	9	4/1/2003	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	
MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	0.949	9-MM	MW-6	MW-6	9-WM	9-MM	9-MM		L-MM	MW-7	MW-7	MW-7	MW-7	MW-7		MW-8	MW-8	MW-8	MW-8	MW-8	MW-8		6-WW	6-MM	6-MM	6-MM	WW-9				H MW-10		MW-10	MW-10	

6.0	1.68	17.2	2.91			1.08	1.37	10.4	1.59			, ,	2 3	7.8	3.76	5			0.91	2.56	21.9	3.87			0.02	1.88	22.2	3.51		$\overline{\ \ }$	- 3	7.07	1.74	30.7	3.76			
						55						ç	77					1	97																			
		<.1				0.57		1.5				7	,	3.43	<u>;</u>				<u>`</u>		<.1						0.379							<u>.</u>				
		7.79				30.5		1.11				CCO	0.62	96 9				ļ	27.9		9.09						7.87							6.62				
	-	1.88				0.93		1,				7	<u>;</u>	\ \ -					0.37		3.32						<u>``</u>							<u>.</u> .				
80	330	<5	3			380	730	₹	40			C C C	200	270 \$, ,				230	240	<5	3			130	990	28	8				100	320	\$	٣			
<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	80.0	<0.02	<0.02	<0.02	<0.02	<0.02		20.02	\$ 0.05 0.05	1000	<0.02 <0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	V 70.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
					<5						<25						<250							<5						\$							\$	
⊽		<1	<1	<1	\$	₹	5	15	₹	₹	<25	7	7	√ ₹	, ;	 \foldate{\nu}	<250		₹	-1	,	<1	- -	<5	^	₹	₹	₹	₹	Ą.		V	₹	₹	₹	<u>,</u>	\$	
\$	\$	<5	۲ ۲	/	<5	103	83	121	8	9	420	Ļ	9	156	5 7	7 V	320		Ş	15	<5	 	V	<5	<5	\$	<5	<u>`</u>	₹	\$		\$	\$	\$	₹	₹	~ 5	
7	₹	^	8	<3	<15	7 290	2.210	4,280	131	52	11,700	7	7 3	6,420	3 (7 0	11,500		<u>\</u>	39	₹	3	V	<15	۲	<u>~</u>	<u>~</u>	\$	\$	<15		₹	₹	₹	8	8	<15	
₹	₹	1	₹	<1	<5	1 400	386	483	37	26	1,400	3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1,170	5	7 ₹	2,000		<1	5	\	/ >	₽	<5	۲۷	7	₹	₽	√	<5		₹	\	7	₹	<1	<5	
₹	⊽	۲	₹	₹	~ 5	. 200	1,480	3,400	62	48	3,200	7		2,780	3 3	⊽⊽	6,100		<1	25	~	 	⊽	<5	\	7	₹	₹	₹	\$		₹	٧	V	₹	7	<5	
₹	₹	₹	₹	₹	<5	374	129	249	16	_	93	,	- 	184	36	√ \	480		~1	3	<u>را</u>	· ·	₹	<5	<1		₹	₹	₹	\$		₹	<u>\</u>	₹	Ÿ	\	<5	
5.17	3.68	6.8	4.17	5.34	8.2	4 97	3.58	6.55	4.12	5.09	7.86	7	4.34	3.82	2 5	4.35 63	7.84		5.02	3.64	99'9	4.15	5.16	7.96	5.11	3.41	6.22	3.9	4.75	7.46		2.62	3.3	6.05	3.91	4.57	7.27	
4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	4/4/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	0000777	4/1/2003	2/25/2004	11,30/2004	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	
MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW.12	MW-12	MW-12	MW-12	MW-12	MW-12	07 74 44	MW-13	MW-13	╅	MW-13	MW-13		MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	一		MW-15	MW-15	MW-15			MW-16	┪	MW-16	MW-16	MW-16	

1.23	1.77	20.6	2.74			-	171	ינ	1 85	3			<u> </u>	1.29	27.6	1.29	•		000	ρ 	0.77	7.4	3.05			7	, 7 Z	26.5	1.77			1.87	1.18	12.4	2.85			
													<26						ŀ	S		ļ																
_		<.1						0.423	27.0				V		0.459					5.01		0.18						\ \ \						, L.				
		4.44						3.37	5				10.3		5.81					1.84		9						4.94						4.71				
		3.61						\ \	- ;		*		2.51		۲. ۲.					<u>-</u>		, 1.						2.06						0.52				
02	130	₹	<3			190	130	3 4	7 %	,			39	8	ည	4			į	520	270	\$	8			,	2 6	\$5	8			270	300	24	8			
<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	20	20.05	200	20.02	70.07	Z0:05	<0.02	<0.0>	<0.02	<0.02	<0.02	<0.02		,	<0.02	0.27	0.30	<0.02	<0.02	90.0	9	70.05	20.02 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
					<5							\$				-							•		~ 20 20						<5						\$	
\ <u>\</u>	₹	<u>۲</u>	<1	<1	<5	1	, V		/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 	<u> </u>	\$	₹	V	₹	₹	۲ ۲			V	51	51	⊽	۲,	53	,	7	 	. ₹	₹	<5	-	<1	<1	₹	7	<5	
\$	\$	<5	₹	,	<5	4	7 4	, 4	7 7	, ;	√	\$	4	<u>ئ</u>	\$	7	۲ <u>۰</u>			000 0000	163	108	⊽	~ 1	150	١	9 4	S A	\	⊽	<5	<5	<5	<5	⊽		<5	
_	₹	<1	<3	<3	<15	7	7 5	7 2	7 8	7 9	₩.	<15	₹	V	⊽	V	8			5,500	4,150	3,160	ς>	<3	2,200	,	7 3	√ √	Q	V	<15	<1	<1	<1	₽	3	<15	
_	₹	<1	<1	<1	<5	7	7 5	7 7	7 7	-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	\ 	~ 2	₹	V	₹	٧	₹	well destroyed		1,050	952	538	~ 1	<1	200		7 3	√ \ <u>\</u>	⊽	٧	<5	<1	<1	<1	√	<1	<5	
33	₹	۲	₹	۲	<5	7	7 5	7 7	7 7	7	₹	\$	V	₹	₹	₹	⊽			2,400	4,480	3,440	<1	<1	2,900	,	<u>√</u> ,	√ ∨	₹	⊽	<5	9	<1	<1	<1	<1	<5	
-	⊽	₹	₹	V	\$	7	7 \	7 7	7 7	7	V	\$	7	V	₹	₹	۲ ۲			154	1,950	1,190	~	<1	720	,	· \	√ \	₹	₹	<5	<1	<1	<1	<1 ·	<1	<5	
5.36	3.24	5.95	3.91	4.45	7.07	62	S: 6	7 4	0.0	7.0	3.89	6.4	90 6	171	3.25	2.45	2.4			4.37	3.24	6.05	3.57	4.58	7.32	,	10.4	3.02 5.8	4.05	4.67	7.12	2.57	2.02	3.62	2.45	2.82	5.09	
4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	4/4/2002	2/25/2004	11/20/2004	7/25/2004	0002/02/1	1/10/2006	8/3/2006	4/4/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004 11/30/2004	7/25/2005	1/10/2006	8/3/2006	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	
MW-17	MW-17	T	MW-17	MW-17	MW-17	FA1147 40	NAMA/ 19	十	+	01-001	MW-18	MW-18	MM-10	MW-19	+-	+	MW-19	MW-19		MW-20		MW-20	MW-20	MW-20	MW-20		MW-21	1MW-21	MW-21	MW-21	MW-21	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	

- -	1.21	15.7	2.95			6	1.36	1.12	20.2	2.31			1.35	1.67	12.3	1.88				1.20	1.29	22.10	3.3				1.21	1.29	38.90	1.85			39.2	2.86					
																				<26																			
		0.322							<u>.</u>						4.84	•				1.61		2.92							0.66				1.18						
		6.27							3.56						2.76					16.5		4.95							3.31				3.08						
		<.1							, <u>, </u>						۰. ۲.					<.1		<.1							v.		-		<.1						
920	26	29	46				တ္က	1,130	\$	2			75	8	11	30				130	10	8	45			1	98	12	13	4			55	35					_
<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	 <0.02	<0.02	<0.02	<0.02	<0.02		 	<0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
					ر ځ					_		<5																				2							
<1	-1	~ 1	<1	<1	<5		₹	-1	\ <u>\</u>	<1	<1	<5	√	1	3	2	3			2	35	135	92	31			77	8	12	2	3	73	را	<1	<1				
<5		· <2	· -	<1 .	<5					2		<2		<5	<5	 ⊽	↓	-		<5		<5						_	<5	2		41		-	-(1		·		
							_											-	_								-												_
▼	V	₹	8	<3	<15	_	\ \	2	\ 	<3	<3	<15	 <1	<1	\ 	\$	<3	_		٧	٧	31	62	250			7	148	6	10	7.2	430	٧	×3	<3				
₹	1 >		~	۲	<5		<1	<1	<1	<1	<1	<5	<1	<1	ا	₹	₹			⊽	⊽	5	5	31			₹	. 28	- 1	3	22	83	₹	⊽	~				
∀	₹	₹	₹	₹	. <5		<1	<1	<1	<1	<1	<5	<1	<1	⊽	₹	₹			₹	₹	4	3	. 9			~	1	!>	1>	2	12	₹	⊽	V				
<u>\</u>	₹	₽	₹	۲	<5		2	2	<1	3	- -	<5	<1	<1	⊽	₹	₹			₹	٧	332	99	110			1	191	37	35	20	260	⊽	⊽	√				
1.64	0.52	96.0	90.0	3.21	2.68		1.34	3.15	2.85	3.81	3.3	5.11	1.32	3.25	3.97	3.91	3.35	d√	 -	1.12	3.5	4.23	4.91	3.76	dry		1.44	4.38	5.12	5.45	4.76		6.35	6.58	9	dry	dry		
4/1/2003	2/25/2004	11/30/2004		1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/10/2006	 11/30/2004	7/25/2005	1/10/2006	8/3/2006	8/10/2006		
MW-23	MW-23	MW-23	† 	MW-23	MW-23		MW-24	MW-24		┢	┢	MW-24	MW-25	MW-25	MW-25	\vdash	MW-25	MW-25		MW-26	MW-26	_	MW-26	MW-26	MW-26		MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	 MW-28	MW-28	MW-28	MW-28	MW-28		-

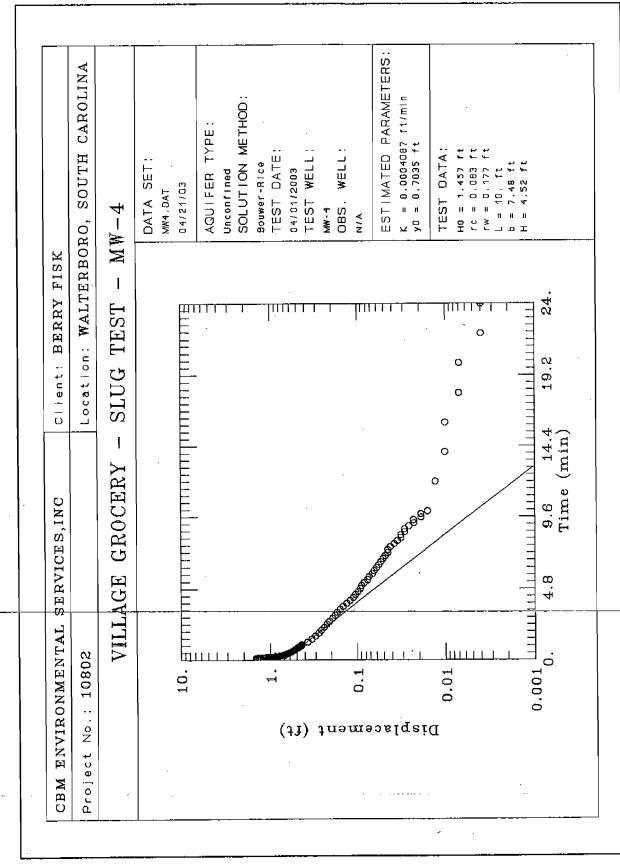
2.7	5.6				69.0					4.26				4.81			3.96			4.28			4.41			2.2				2.51						T		
																																			_	_	\downarrow	
43.6																																				1		
11.6																																						
\ 																																						
784	25				1,900					200				35			120			35			100			1 100				29								
<0.02	<0.02	<0.02	<0.02		<0.02	<0.02				<0.02	<0.02		·	<0.02	<0.02		<0.02	<0.02		<0.02	<0.02		<0.02	<0.02	<0.02	20.02	<0.05			<0.02	<0.02							
			<5	٠												<5						<5			<5			\$				<5						
99	29	48	32		1	₹				\ \	 			<1	!>	<5	<1	7		۲	\	\$	₹	7	<5	7	V	. ₹	ļ	₹	₹	<5					1	
7	=	12	9		\	<u>۲</u>				₹	\			/	 	<5	<1	~ 1		۲	<1	<5	₹	<1	<5	7	V	.c.		₹	7	<5						
164	143	190	38		3	δ.				♡	33			<3	<3	<15	<3	3		8	ß	<15	\$	<3	<15	,	2 5	<15		8	Ç	<15						
13	7	80	\$		<1	<1				₹	\			\	₹	<5	<1	<1		<1	\	<5	<1	<1	<5	7	₹	<5		۲	V	<5						
~	ر ا	9	\$		\	7				₹	⊽			- 1>	⊽	22	<1	<1		<1	7	<5	~	<1	<5	7	· v	. ₹		⊽	₹	<5						
79	190	170	100		~	~ 1				₹	₹			 	⊽	<5	/	<1		<1	^	<5	^	-	<5	7	7 5	- S		₹	₹	\$						
4.5	4.69	4.44	7.15		3.85	3.44	dry	dny	<u> </u>	6.25	6.93	dry		5.81	7.58	9.91	6.88	6.57	dry	6.83	7.59	8.03	5.55	3.77	6.39	3 6 5	3 6	7.88		5.85	6.25	8.33					1	
11/30/2004	7/25/2005	1/10/2006	8/3/2006		7/25/2005	1/10/2006	9007/8/8	8/10/2006		7/25/2005	1/10/2006	8/10/2006		7/25/2005	1/10/2006	8/10/2006	2002/27/2	1/10/2006	8/10/2006	7/25/2005	1/10/2006	8/10/2006	7/25/2005	1/10/2006	8/10/2006	7/06/20/6	1/10/2006	8/10/2006		7/25/2005	1/10/2006	8/10/2006						
MW-29	MW-29	MW-29	MW-29		MW-30	MW-30	MW-30	MW-30		MW-31	MW-31	MW-31		MW-32	MW-32	MW-32	MW-33	MW-33	MW-33	MW-34	MW-34	MW-34	MW-35	MW-35	MW-35	A41A7 26	MW-36	MW-36		MW-37	MW-37	S MW-37	DH	EC				

1.1	1.33	11	2.47			1.51	1.72	7.67	3.01			9 00	23.0	2.49			7.4	2.29			,	26.5	1.59			,	9.7	1.74										
		0.88						1.18				90	4.00				×.1	_				6.47				-	38											
		<1						1.57				;					∑	•				22.6					5.31											
		<.1						<.1				,	į.				<.1					^					\ <u>`</u>											
06	20	2	12			17	33	14	8			000	007	180			1,780	\$				43	8				158	65			3	€>	\$					
<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	ı	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
					<5						<5					<5				<5					<5					<5						<5		
7	\ <u>\</u>	⊽	۲ -	۲	<5	<1	 	 	\	\	13	1	<u></u>	ÿ	\	<5	\ \	1>	<1	<5		₹	₹	7	<5		<u>~</u>	₹	~ 1	<5	1>	<u>.</u>	⊽	₹	₹	<5		
<5	\$	<5	۲ ۰	<1	<5>	G>	G>	9>	L>		24	ı	₹	Ÿ	<u>^</u>	G>	\$	 >	<١	<5		80	~1	2	\$>		Ą	₹	7	<5	\$>	<2	\$	√	١>	<5		
က	₹	₹	Ş	<3	<15	29	9	4	14	6	099	,	<u>ر</u>	♡	<3	<15	⋝	<3	€>	<15		91	<3	3	<15		V	8	8	<15	L>	٧	⊽	8	\$	<15		
∵	₹	₹	₹	<1	<5	9		₹	4	1	170		\	√	<1	<5	. ▼	₹	<1	<5		15	<1	<1	<5		<1	<1	<1	<5	\	<u>۲</u>	V	V	>	<5		
₹	⊽	₹	₹	₹	<5	17	က	က	15	√	610	,	₽	~	~ 1	<5	₹	⊽	\	\$		24	<1	\	<5		7	<u>^</u>	7	<5	7	⊽	₹	₹	⊽	<5		
7	₹	₹	₹	₹	<5	3	_		2	₹	190		Ū	₹	₹	<5	7	₹	ĭ,	\$	-	1	<1	1 >	<5		7	~	₹	<5	₹	₹	₹	⊽	⊽	\$		
5.32	3.68	7.78	4.12	5.25	8.11	5.41	4.54	7.72	4.65	5.71	8.72		7.52	3.55	4.82	7.79	3.35	2.19	2.46	4.6		9.65	4.85	5.85	8.7	_		6.97	7.47	80.6								
4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		11/30/2004	7/25/2005	1/10/2006	8/3/2006	11/30/2004	7/25/2005	1/10/2006	8/3/2006		11/30/2004	2/25/2005	1/10/2006	8/3/2006		11/30/2004	7/25/2005	1/10/2006	8/3/2006	4/1/2003	2/25/2004	11/30/2004	7/25/2005	1/10/2006	8/3/2006		
T-W-1	TW-1	TW-1	TW-1	TW-1	TW-1	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2		TW-3	TW-3	TW-3	TW-3	TW-4	TW-4	TW-4	TW-4		TW-5	TW-5	TW-5	TW-5		9-W.T	9-W.T	9-W.T	9-W.T	WSW-1	1-MSM SCI	-	-	WSW-1	WSW-1		

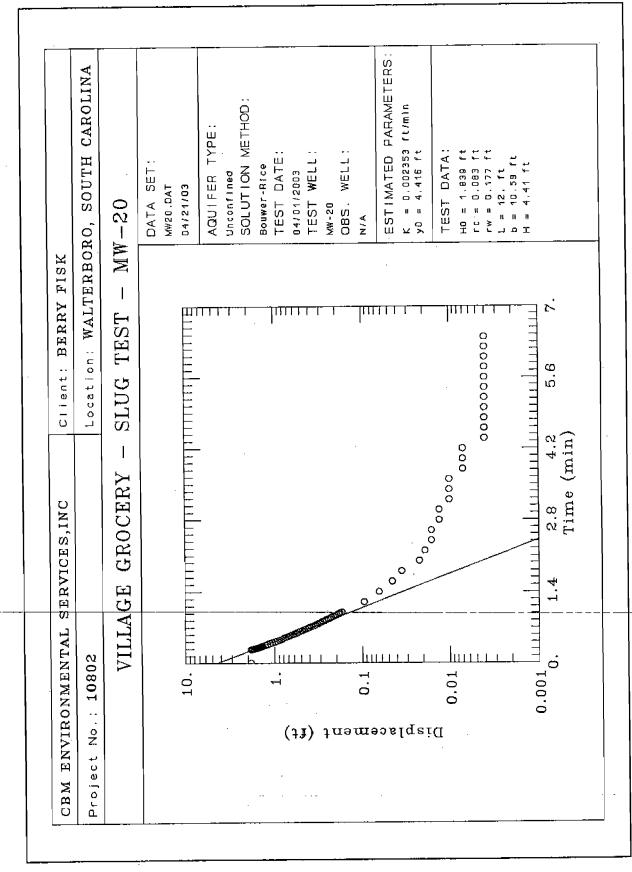
IFB-31016-11/28/06-EMW Page: 51

7-11011	4/1/2003	₹	\	₹	₹	<5	7		<0.02	<3			
WSW-2	2/25/2004	٧	⊽	₹	₹	\$	√		<0.02	<3			
WSW-2	11/30/2004	₹	⊽	٧	₹	\$	⊽		<0.02	<3			
WSW-2	+	₹	₹	>	8	⊽	⊽		<0.02				
WSW-2	1/10/2006	₹	⊽	\	<3	<1	\		<0.02				
WSW-2	8/3/2006	<2>	<5	<5	<15	<5	<5	<5	<0.02				
WSW-3	7/25/2005			no power at well									
		,			Ç	,	1		500				
WSW-4	7/25/2005	₹	⊽	V	%	V	₹		<0.02				
WSW-4	1/10/2006	<1	۲,	~	8	₹	7		<0.02				
											_		
WSW-5	7/25/2005	₹	⊽	\	<3	~ 1	<1		<0.02				
WSW-5	1/10/2006	₹	₹	₹	જ	~	<1		<0.02				
9-MSM	11/30/2004	₹	₹	₹	₹	<5	<1		<0.02	<3			
9-MSM	7/25/2005	₹	₹	<1	3	~ 1	<1		<0.02				_
9-MSM	1/10/2006	<1	~ 1	<1	3	~ 1	₹		<0.02				
								-, <u>-</u> -					
WSW-7	7/25/2005			no power at well									
												_	
6-MSM	4/1/2003	V	⊽	< 1	<1	<5	<1		<0.02	11			
6-MSM	2/25/2004	₹	ѷ	>	۲ ۲	<5	\		<0.02	<3			
6-MSM	11/30/2004	₹	\	. >	<1.	<5	<1		0.05				
6-MSM		₹	₹		<3	<1	<1		<0.02				
6-MSM	1/10/2006	₹	۷	 	<3	<1	<1		<0.02				
6-MSM	8/3/2006	<5	<2>	4 2	<15	<5	<5	~ 5	<0.02			_	
WSW-10	7/25/2005			no power at well									
WSW-11	11/30/2004	<1	\	<1	<1	~ 5	₹		<0.02	\$			
						i						-	

	CI	INANA DV	of SLUG	TECT		-	
	ગ	JIMIMART	01 3200	IESI	<u> </u>		
D	epartment of He		CAROLIN Environme		ol (DHEC)		
Site Data		_			<u>. </u>		
SITE ID #: 14	548		COUNTY:	Colleton			
FACILITY NAM	иЕ: <u>Village G</u>	госегу					
Slug Data							
See Appendix Ta (water level loo Water Level Recovery Da	gs, etc.) (Complet	e as appro	priate).		all data meas	surements.	
. (Hermit Data L Complete the following tab	ogger, Manually v	with Water ested.	Level Indica	ator, etc.) (L		-D	
COMITETEA	SECOND GIVE	THE WORLD		OIT WELLO	AINE TEOTE		
Slug Test Conducted in w	ell(s) Number		MW-4	MW-9	MW-20		
Initial Rise/Drawdown in w	vell (feet)		1.457	1.485	1.839		
Radius of Well Casing (fee	•		0.083	0.083	0.083		
Effective Radius of Well (f	eet)		0.177	0.177	0.177		
Static Saturated Aquifer T	hickness (feet)		7.48	10.04	10.59		
Length of Well Screen (fee	et)		10	13	12		•
Static Height of Water Col	umn in Well (feet))	4.52	4.96	4.41		
Calculations							
	., .				*		
See			;				
AppendixTa	ible	_Figure		for calculat	ions. (Compl	ete as appro	priate).
The method for aquifer ca	lculations was	Bouwer-R	Rice		(I.e. Bouwer	-Rice, Coop	er, etc.)
Calculated values by well	were as follows:	•					
Slug Test Con	ducted in well(s) r	number		MW-4	MW-9	MW-20	
Hydraulic Con	ductivity	(ft/min)		4.09E-04	8.10E-04	2.35E-03	
		(ft/day)		0.589	1.17	3.38	
Thickness of the aquifer u	ised to calculate h	ydraulic co	onductivity w	vas	7.48 to 10.59	feet.	
The aquifer is	confined	-	_semi-confir	ned	X	water table	
				•	_	_	
The estimated seepage vo			8.60 to 49.3		_feet/year ba		
a hydraulic conductivity	y of0.589	to 3.38 fe			gradient of		and
a porosity of	25 per cent fo	or a	silty grav	elly sand	soil (list type	:).	



1. Discontinged Solver-Rice Solver-Rice TEST WELL: NM-9
1 = -



Appendix B

Anna's Variety Shop

UST Permit #17355

IFB-31016-11/28/06-EMW

Anna's Variety Shop, UST Permit #17355

TABLE 1

Distribution List for Plans and Reports – The names and addresses are subject to change as properties are bought and sold.

UST OWNER

209-00-00-018

Anna Smith, 351 Rodeo Dr., Walterboro, SC 29488

PROPERTY OWNERS

209-00-00-017	Robert Ritter, 4925 Green Pond Hwy., Walterboro, SC 29488
209-00-00-019	Greg & Maria Cantwell, PO Box 2027, Walterboro, SC 29488
209-00-00-041	Hoyt Morris, 145 Possum Corner Rd., Walterboro, SC 29488

Anna's Variety Shop, UST Permit #17355

TABLE 2
CoC mass in parts per billion (ug/l) based on August 29, 2006 sampling: (CoC may increase or decrease in the future)

Well	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	МТВЕ	Total Mass
MW- 1	820	7,200	2,100	16,100	1,200	<100	27,520
MW- 2	5,500	28,000	2,800	14,400	670	<50	51,420
MW- 3	<5	<5	<5	<15	<5	<5	40
MW- 4	6	<5	12	59	8	<5	95
MW- 5	<5	<5	<5	<15	<5	<5	40
MW- 6	<5	<5	<5	<15	<5	<5	,
MW- 7	<5	<5	<5	<15	<5	<5	
MW- 8	<5	<5	<5	<15	<5	<5	40
MW- 9	<5	<5	<5	<15	<5	<5	
MW- 10	<5	<5	<5	<15	<5	<5	
MW- 11	<5	<5	<5	<15	<5	<5	
MW- 12	230	1,400	920	4,110	480	<25	7,165
MW- 13	<5	<5	<5	<15	<5	<5	
TW- 1	<5	<5	<5	<15	<5	<5	40
TW-2	<5	<5	<5	<15	<5	<5	40
TW- 3	<5	<5	<5	<15	<5	<5	40
TW- 4	<5	<5	<5	<15	<5	<5	
WSW- 2	<5	<5	<5	<15	<5	<5	40
WSW-3	<5	<5	<5	<15	<5	<5	40
WSW- 5	<5	<5	<5	<15	<5	<5	•
Initial Mass ⁷⁾	6,596	36,645	5,872	34,789	2,398	220	86,520
SSTL Mass	237	35,185	5,872	34,789	426	175	76,684
Initial Mass above SSTL	6,359	1,460	0	0	1,972	45	9,836

¹⁾ CoC mass may change due to seasonal fluctuations in the groundwater. The Initial Mass is calculated only for those monitoring wells that are in **bold**.

SCDHEC IFB-31016-11/28/06-EMW

Anna's Variety Shop, UST Permit #17355

TABLE 3

Site-specific target levels (SSTLs) in parts per billion (µg/l)

Well	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE
MW- 1	66	7,200*	2,100*	16,100*	137	55
MW- 2	111	26,540	2,800*	14,400*	192	50**
MW- 3	5**	5**	5**	15**	5**	5**
MW- 4	6*	5**	12*	59*	8*	5**
MW- 5	5**	5**	5**	15**	5**	5**
MW- 8	5**	5**	5**	15**	5**	5**
MW- 12	14	1,400*	920*	4,110*	49	25**
TW- 1	5**	5**	5**	15**	5**	5**
TW-2	5**	5**	5**	15**	5**	5**
TW- 3	5**	5**	5**	15**	5**	5**
WSW- 2	5**	5**	5**	15**	5**	5**
WSW- 3	5**	5**	5**	15**	5**	5**
Total	237	35,185	5,872	34,789	426	175

^{*} Laboratory analysis is less than calculated SSTLs; therefore, SSTL mass is set equal to laboratory mass.

Anna's Variety Shop, UST Permit #17355

 TABLE 4 Analytical Parameters

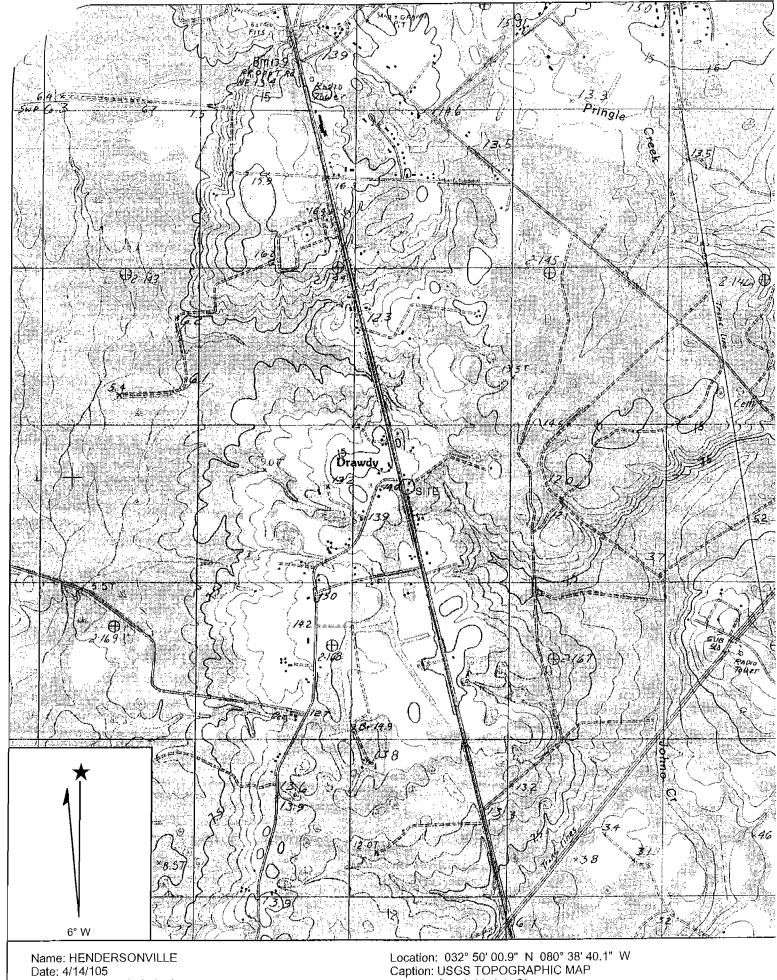
Analyte	Analytical Method	Reporting Limit (µg/l)
BTEX**	8260B/5030B	5
Naphthalene**	8260B/5030B	5
MTBE**	8260B/5030B	5

^{**}The UST Program no longer accepts equivalent methods for VOC Analysis.

SCOHEC

IFB-31016-11/28/06-EMW

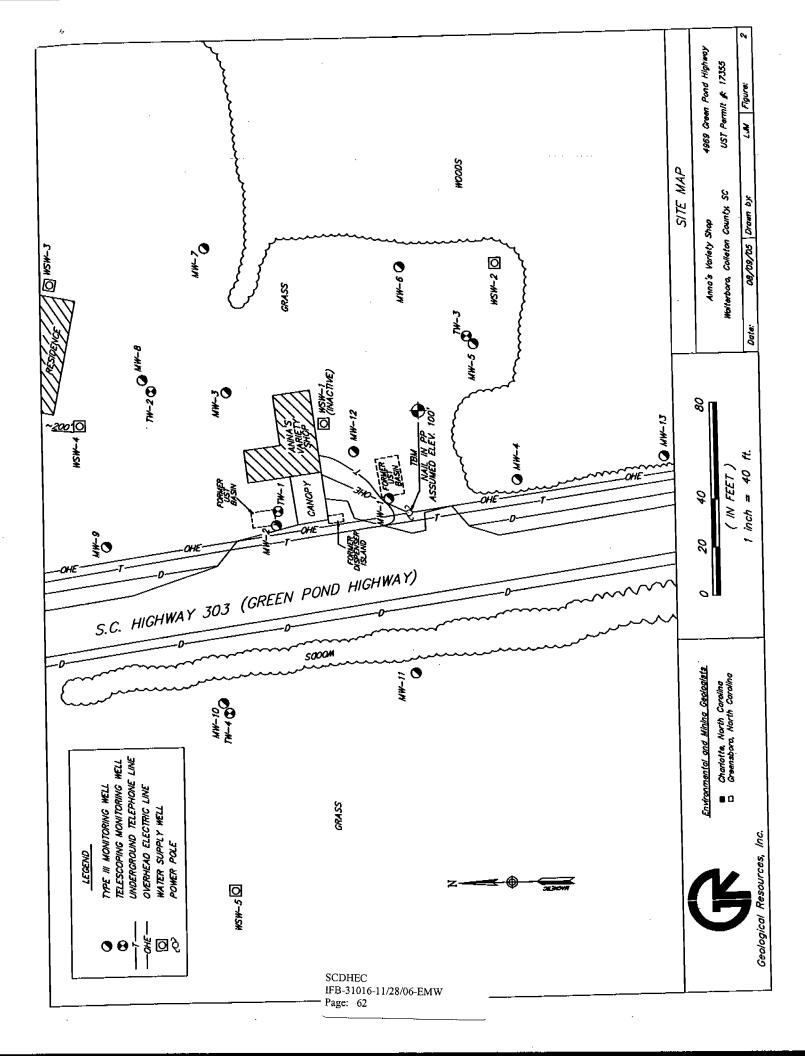
^{**} Laboratory analysis is below detection limits; therefore, SSTL mass is set equal to detection limits.

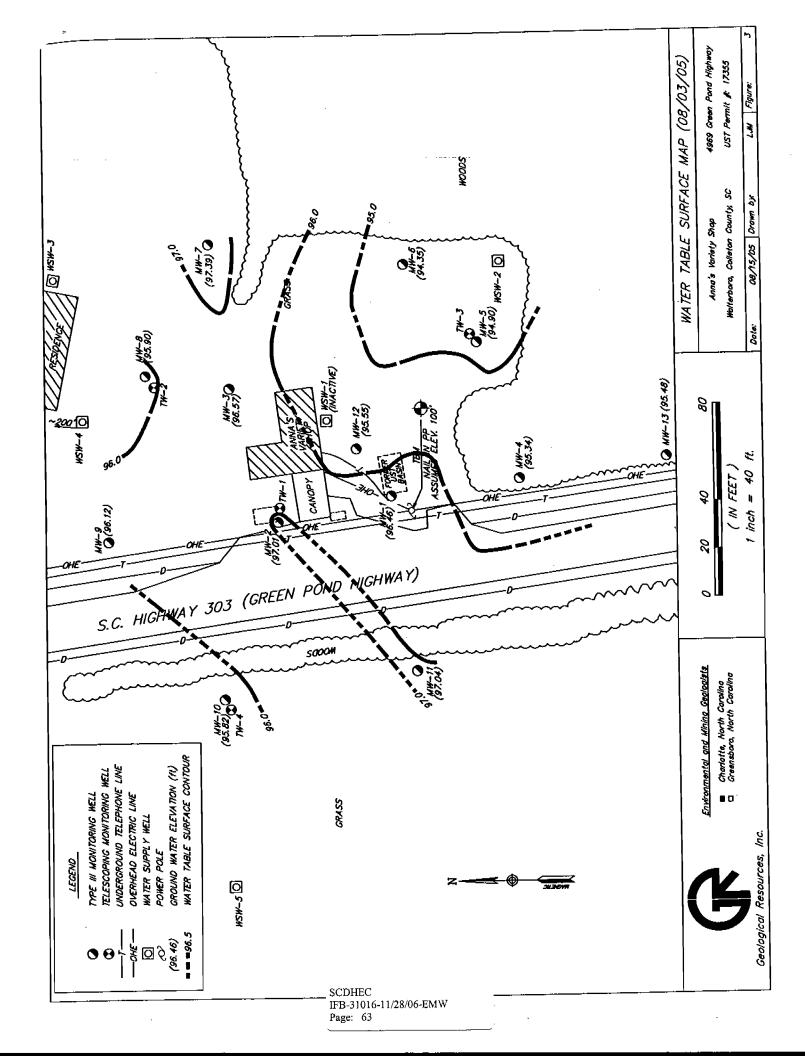


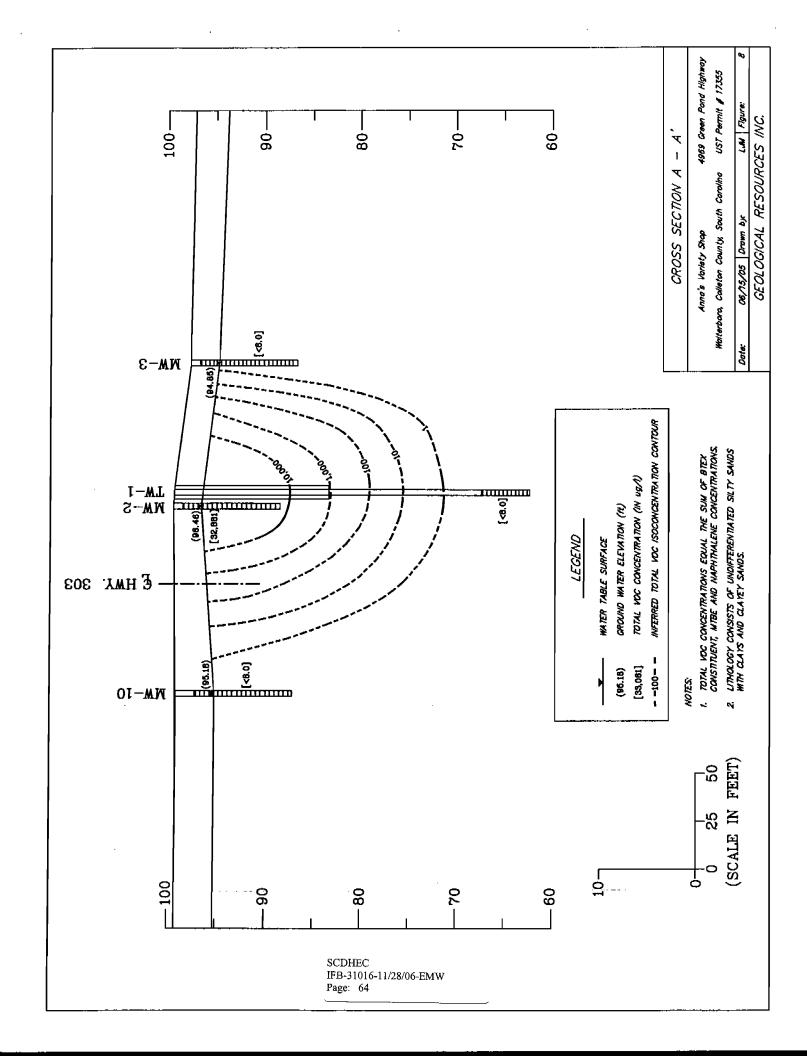
Date: 4/14/105

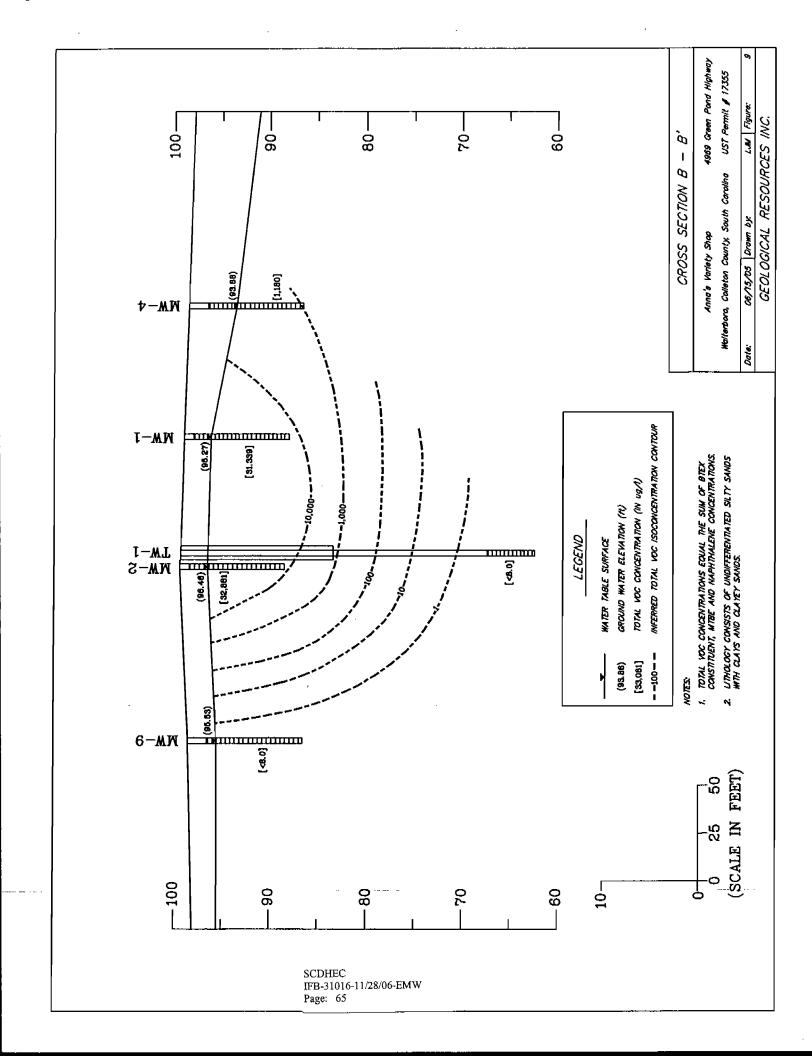
Scale: 1 inch equals 2000 feet

Anna's Variety Shop
Figure 1 UST Permit#: 17355
SCDHEC
1FB-31016-11/28/06-EMW









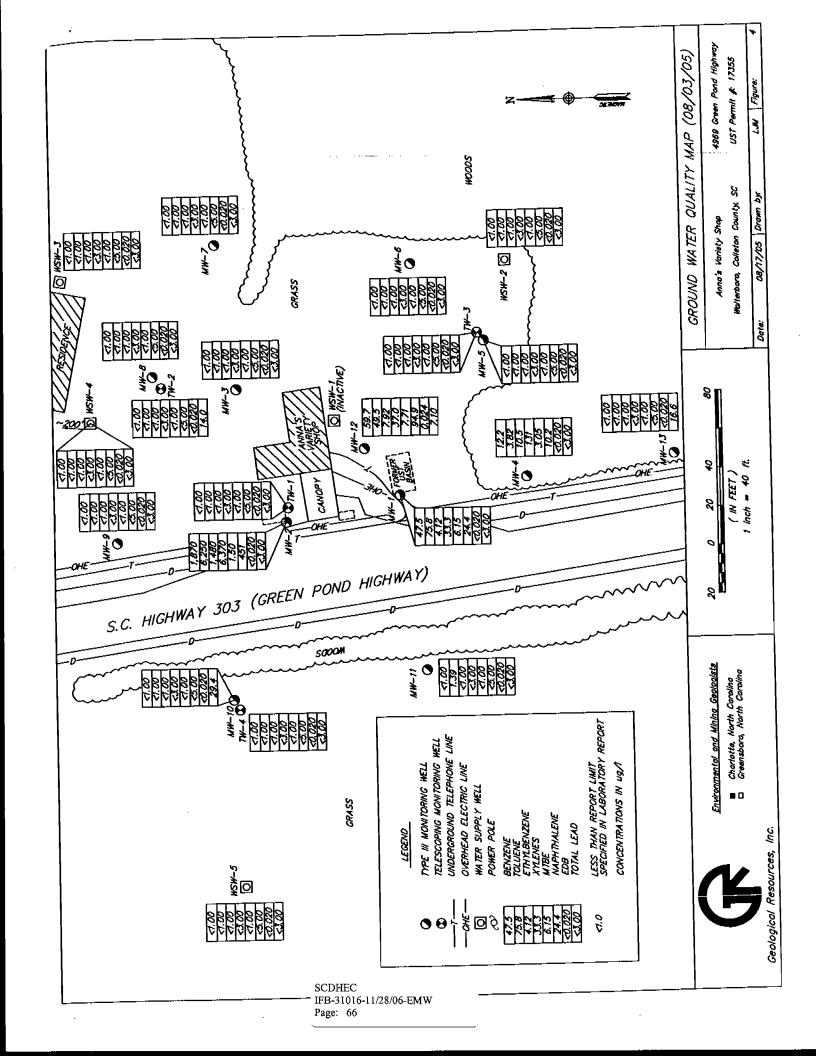


TABLE 1 SUMMARY OF GROUND WATER ELEVATION DATA¹ ANNA'S VARIETY SHOP

well No.	Date: 1	Tapareasing Department	192 Deput to get Lonound Water	Ground Water	(Constructed) Well Depthal	Screened & Interval W
	03/23/05		1.30	98.70		
MW-1	06/02/05	98.51	2.24	96.27	11	1-11
	08/03/05		2.05	96.46		
	agricaniani			38802224454		
10.00				建建 2646年以及		
	<u> </u>					
	03/23/05		0.88	98.40		
MW-3	06/02/05	97.77	2.92	94.85	11	1-11
	08/03/05		1.20	96.57		
T.VIV.						
MW-5	05/31/05	97.61	4.31	93.30	12	2-12
101 11 - 3	08/03/05	57.01	2.71	94.90	12	
NATE:	e rosessueses					
				38 S 94 35 8 8		
MW-7	05/31/05	97.82	3.64	94.18	12	2-12
171 ** - 7	08/03/05	77.02	2.43	97.39	12	- 1-
	3 数0基205%。					
				2000		(di) 5)25; (di)
MW-9	05/31/05	98.65	3.12	95.53	12	2-12
101 00 ->	08/03/05	70.05	2.53	96.12	12	2 12
					建設。《建設	
MW-11	06/01/05	99.13	7.45	91.68	12	2-12
141 44 -1 1	08/03/05	77.13	2.09	97.04	12	2 12
	7.05/15/16/13					
MW-13	08/03/05	100.57	5.09	95.48	12	2-12
	\$200.00 (2.05.00)		24931/487770 0			国建 等方式
	COMPANS SE			(20 ACO) (55 AF)		
TW-2	06/02/05	98.47	14.72	83.75	37	32-37
1 VV -Z	08/03/05	20. 4 7	3.07	95.40	<i>J</i> /	۱ ر بار
	88 (K02(B)4.)	1347322	30,000,000,000	a de la companya della companya de la companya della companya dell		建设 为1.7.2 键
				** \$48507 13 B		100
TW-4	06/02/05	99.39	26.89	72.50	37	32-37
1 44	08/03/05	99.37	3.15	96.24		

Note:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.

Annas Variety Shop, UST Permit #17355 Historical data summary

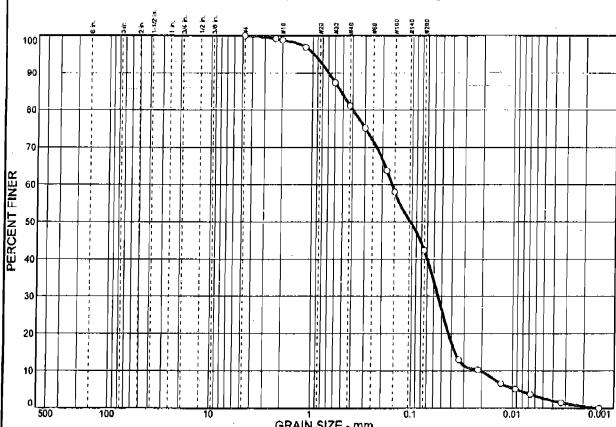
Release reported April 2, 1991, 1 UST removed Jan 1, 1989, 1 UST filled in place May 15, 1998

EDB	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02			<0.02	<0.02	<0.02		<0.02	<0.02		<0.02	<0.02			<0.02	<0.02		<0.02	<0.02		<0.02	<0.02		
20	6.3				6.1					9.3																				
Lead	719	5	<3		52	7	<3			22	<5	3		14	3		7	8			21	8		19	?		13	8		
Methane	4,560				5,230					30																				
FE+2	155				6.86					4.93				0.8			<.5				-			<.5			<.5			
Sulfate	6.24				2.77					109.00				14.00			9.70				16.00			39.00			20.00			
Nitrate	v.				<.1					3.23				<.1			<.1				×.			12			1.9			
1,2-DCA				<100				<50					<2			<5			<5				<5			\$			<2	
MTBE	271	29	9	<100	\	1.1	2	<50		۲,	,	^	<2	56	3	<5	3	\	<5		7	<1	<5	7	1>	^	Ÿ	. <1	<2	
Naph.	1,000	910	24	1,200	870	670	451	029		<5	<u>۲</u>	<5	<5	34	10	8	<1 :	<5	<5		<1	<5	<5	<1	<5	<5	₹	<5	<5	
Xylenes	14,200	17,500	33	16,100	17,200	10,800	6,730	14,400	-	\	\$	8	<15	750	131	29	<3	<3	<15		3	<3	<15	\$	<3	<15	8	<3	<15	
Ethylbenzene	2,360	2,900	4	2,100	3,800	2,300	1,480	2,800		۲۷	-	⊽	<5	120	11	12	<1	< 1	<5		<1	-	<5	<1	>	<5	<1	<1	<5	
Toluene	8,480	8,800	9/	7,200	13,600	15,000	6,250	28,000		~	V	V	<2	150	4	<5	/	\	<5		<1	<1	<5	<u>`</u>	₹	<5	7	<1	^	
Benzene	1,150	1,200	48	820	7,100	4,100	1,870	5,500		^	\ \	₹	\$	35	12	9	<1	۷	\$		<1	\	<5	<u>`</u>	⊽	<5	<1	 	~	
WTQ	6.	2.24	2.05	1.96	1.66	2.98	2.43	2.32		0.88	2.92	1.2	2.49	4.51	3.05	2.98	4.31	2.71	5.38		3.81	2.48	5.82	3.64	2.43	6.2	3.1	2.44	5.82	
Date	3/24/2005	6/2/2005	8/3/2005	8/29/2006	3/24/2005	6/2/2005	8/3/2005	8/29/2006		3/24/2005	6/2/2005	8/3/2005	8/29/2006	6/2/2005	8/3/2005	8/29/2006	6/2/2005	8/3/2005	8/29/2006		6/2/2005	8/3/2005	8/29/2006	6/2/2005	8/3/2005	8/29/2006	6/2/2005	8/3/2005	8/29/2006	
Well	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2		S MW-3	MW-3	EC-MM-3	MW-3	MW-4	MW-4	MW-4	MW-5	MW-5	MW-5	•	MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	

<0.02		<0.02	<0.02		<0.02	<0.02			<0.02	0.024		<0.02			<0.02	<0.02		<0.02	<0.02		Q Q	20.0Z	<0.02		<0.02	<0.02			<0.02	<0.02		0	<0.02	<0.02		
<3		56	29		15	3			62	7		17	_		<5	\$		<5	14			φ (7		80	<3		-:-	<5	<3			Ŷ	\$3		
\ .5		<.5			\ 5			,	9.4			0.951			<.5			<.5			1	Ω V			9.0											
<5		8.00			15.00				\$			1.78			20.00			26.00			3	21.08			71.00											
×.		0.14			0.36				<u>۲</u> ,			\ \ \			0.7			0.26			(0.26			2											ı
	Ą			. 5			<5				<25		\$				<5			\$				₩			<5				<5				<5	
₹ ₹	\$ 52	<1	⊽	<5	<1	<1	<2>		180	&	<25	٧	\$		⊽	 	<5	⊽	⊽	\$	Ì	v ·	V	\$	⊽	⊽	<5		\	 >	<5		⊽	⊽	<5>	
₽₩	\$	<1	~ 2	\$ >	~ 1	\$ >	\$ >		290	92	480	Ą.	\$		۲.	5>	<5	<u>`</u>	\$	\$,	√	₽	ξ,	⊽	^ 2	<5		~ 1	<2	<5		⊽	Ŝ	<5>	
2 2	<15	\$	<3	<15	\$	<3	<15		5,800	37	4,110	8	<15		8	<3	<15	8	ç	×15	,	γ	7	×15	8	8	<15		3	<3	<15		უ	8	<15	
\[\nabla \]	\$	\	<1	<5	\	<1	<5		1,900	8	920	\ <u>\</u>	\$		۲	<1	<5	<1	₹	~ 22		, V	ا درا	\	₹	₹	<5		<1	\	<5	ļ	,	\	<5	
\[\nabla \]	\$	<u>۲</u>	<1	<5	₹	1	<5		2,300	50	1,400	V	< <u>\$</u>		₹	\	<2		\	\$		→	\ \ 	\$	₹	₹	<5		<1	· •	<5		<u>`</u>	₹	<5	
⊽⊽	\$	~ 1	<1	<5	.	\ \	<5		730	. 09	230		\$5		۲	^	<5	<1	<1	\$		↓	۲۷	<5	₹	<u>۲</u>	<5		<1	<1	<5		V	V	<5	
3.12	3.1	4.05	3.41	4.53	7.45	5.09	3.32		2.52	2.39	2.04	5 70	5.49		17.36	9.18	10.51	14.72	3.07	5.05	1	24.28	12.26	14.2	26.89	3.15	5.43									
6/2/2005	8/29/2006	6/2/2005	8/3/2005	8/29/2006	9/2/2002	8/3/2005	8/29/2006		6/2/2005	8/3/2005	8/29/2006	8/3/2005	8/29/2006		6/2/2005	8/3/2005	8/29/2006	 6/2/2005	8/3/2005	8/29/2006		6/2/2005	8/3/2005	8/29/2006	6/2/2005	8/3/2005	8/29/2006		6/2/2005	9/3/2002	8/29/2006		6/2/2005	8/3/2005	8/29/2006	
6-WW	6-MM	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11		MW-12	MW-12	MW-12	MW-13	MW-13	•	TW-1	TW-1	TW-1	TW-2	TW-2	TW-2		LW-3	LW-3	TW-3	TW-4	TW-4	TW-4		WSW-2	WSW-2	WSW-2		WSW-3	WSW-3	WSW-3	

<5 <0.02	<3 <0.02	<5 <0.02	<3 <0.02		
			1 1	2 <5	
\$	<3 <5 <	3 <1 <	<3 <5 <	<15 <5 <5	
\ <u>\</u>	\	V	<1	< 2	
₹	√	 ⊽	√	\$	
<u>^</u>	\ \	₹	<u>\</u>	\$	
6/2/2005	8/3/2005	6/2/2005	8/3/2005	8/29/2006	
WSW-4	WSW-4	WSW-5	WSW-5	WSW-5	





			,	SKAIN SIZE	• mm		
% COBBLES	% GR	AVEL		% SAN		% FINES	
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	1.2	17.7	38.7	39.7	2.7

SIEVE	PERCENT	SPEC.	PASS?
SIZE	FINER	PERCENT	(X=NO)
#4 #8 #10 #16 #30 #40 #50 #80 #100 #200	100.0 99.2 98.8 96.9 87.3 81.1 75.1 63.7 58.0 42.4		

Dark Gray Silty	Soil Description fine to medium SANI) O with trace clay (SM)
5 .	Atterberg Limits	
PL= NT	LL= NT	PI=
	Coefficients	
D ₆₅ = 0.528	$D_{60} = 0.160$	$D_{50} = 0.104$
$D_{30}^{30} = 0.0546$	$D_{15} = 0.0367$	$D_{10}^{30} = 0.0208$
C _u = 7.72	$C_{\mathbf{c}} = 0.90$	
	Classification	
USCS= SM	AASHT	O= A-4(0)
	Remarks	
Anna's Variety S		
MW-2	•	

(no specification provided)

Sample No.: MW-2

Source of Sample:

Date: 4-11-05

Elev./Depth: 3'

Location: Anne's Variety Shop

GET SOLUTIONS, INC. Client: Geological Resources, Inc.

Project: Soils Laboratory Services; Various Sites

Project No: OB03-119T

Figure

SCDHEC

IFB-31016-11/28/06-EMW Page: 71



Summary of Slug Test Division of Underground Storage Tank Management

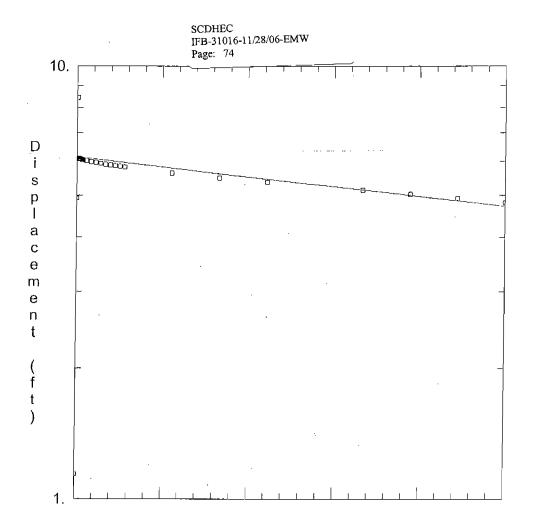
	Site Data	,				
	UST Permit #: 17355		Count	· COLLETAN		
	Facility Name: <u>HUNDS VERIET</u>	y Strong				
	Slug Data		 			
	See Appendix Table level logs, etc. (complete as appropriate)].	———— Figure)	for a list of all data	ı measurements. [wate	
	Water Level Recovery Data was measured to [Hermit Data Logger, Manually with Water L	py <u>HERMIT ()</u> evel Indicator, etc. (I	ATA LOGGER ist method)].)		
	Complete the following table for each well to	ested.		N .		
	COMPLETE A SECOND SHEET IF MORE	THAN FOUR WELLS	ARE TESTED		ſ	
	Slug Test Conducted in Well(s) Number	MW-1	MW-3			
	Initial Rise/Drawdown in Well (feet)	4.92	1.24	<u> </u>		
	Radius of Well Casing (feet)	0,083	0.083			
	Effective Radius of Well (feet)	0.208	0.208		, , ,	
	Static Saturated Aquifer Thickness (feet)	9.86	10.45		,	
	Length of Well Screen (feet)	10.	10			
	Static Height of Water Column in Well (ft)	9.86	10.45			
	Calculations					
	See Appendix Table	Figure	for c	alculations (compl	ete as appropriate),	
	The method for aquifer calculations was		•		er-Rice, Cooper, etc.).	
	Calculated values by well were as follows:				•	
	Slug Test Conducted in Well(s) Numb	er Mw-1	. Nilai	_ 3		
	Hydraulic Conductivity (k)	295× 10-5 f	1/min 6.70 × 11	7-4 ft/14000		
	Thickness of the aquifer used to calculate hydra			•		
.		•			feet.	
	The aquifer is confined			ter table (check as a	appropriate).	
	The estimated seepage velocity is 1,55, 4n, 35,04 feet per year based on					
;	a hydraulic conductivity of <u>7.75×10⁻⁵ Himm</u>	to 670-104 H/M	uin hydraulic gradient	of0, c	2 and	
6	a porosity ofO, 2.O percent for	silty sand	soil (list typ	e i.e., silty sand ,cla	ay, etc).	
		SCDHEC IFB-31016-11/28/06-EM Page: 72	w			
DHE	C 3531 (07/1999)	<u> </u>				



DHEC 3531 (07/1999)

Summary of Slug Test Division of Underground Storage Tank Management

		_				
Site Data		,				
UST Permit #: 17355 County: Colleton						
Facility Name: Anna's Variety		· -				
Slug Data						
See Appendix Table level logs, etc. (complete as appropriate)].	5Figur	e	, for a list of all da	ita measurements. [water		
Water Level Recovery Data was measured by [Hermit Data Logger, Manually with Water L	y evel Indicator, etc. ((list method)].				
Complete the following table for each well te	sted.		<i>i</i> g .			
COMPLETE A SECOND SHEET IF MORE 1	HAN FOUR WELLS	S ARE TESTED		ſ		
Slug Test Conducted in Well(s) Number	MW-6	TW-I				
Initial Rise/Drawdown in Well (feet)	1,74	1.73				
Radius of Well Casing (feet)	0.083	0.083				
Effective Radius of Well (feet)	0.208	0,208				
Static Saturated Aquifer Thickness (feet)	8.48	7,64				
Length of Well Screen (feet)	10	5				
Static Height of Water Column in Well (ft)	8.48	7.64				
Calculations						
See Appendix Table	5 Figure	<i>6</i>	and the			
			calculations (con	nplete as appropriate).		
The method for aquifer calculations was -800	wer-Rice - U	<u>Mcontined</u>	(i.e. Bou	uwer-Rice, Cooper, etc.).		
Calculated values by well were as follows:						
Slug Test Conducted in Well(s) Numb	er MW-6	Tu	V - 1			
Hydraulic Conductivity (K)						
Thickness of the aquifer used to calculate hydraulic conductivity was 8.48 and 7.64 feet.						
The aquifer is confined semi-confined water table (check as appropriate).						
The estimated seepage velocity is	79 and	5.73×10-2		_feet per year based on		
a hydraulic conductivity of 170×10 ⁻⁵ Almin s	5,44×10 7 A/min	a hydraulic gradier	nt of O.C	<u>4</u> , and		
a porosity of <u>20</u> percent for _	siltysan	soil (list ty	/pe i.e., silty sand	,clay, etc).		
SCI	OHEC -31016-11/28/06-EMW e: 73					



TEST 16

Time (min)

5.4

Data Set: F:\Temp Work Folder\Projects\SC State Lead\aNNA'S VARIETY\Slugs\MW-1.aqt

3.6

Date: 04/12/05 Time: 14:12:00

1.8

PROJECT INFORMATION

Company: Geological Resources, Inc.

0.

Client: Anna's Variety Shop

Project: 07775

Test Location: Walterboro, SC

Test Well: MW-1 Test Date: 03/23/05

AQUIFER DATA

Saturated Thickness: 9.86 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1)

Initial Displacement: 4.92 ft Wellbore Radius: 0.208 ft Screen Length: 10. ft

Gravel Pack Porosity: 0.045

Casing Radius: 0.083 ft Well Skin Radius: 0.208 ft

Total Well Penetration Depth: 9.86 ft

7.2

9.

SOLUTION

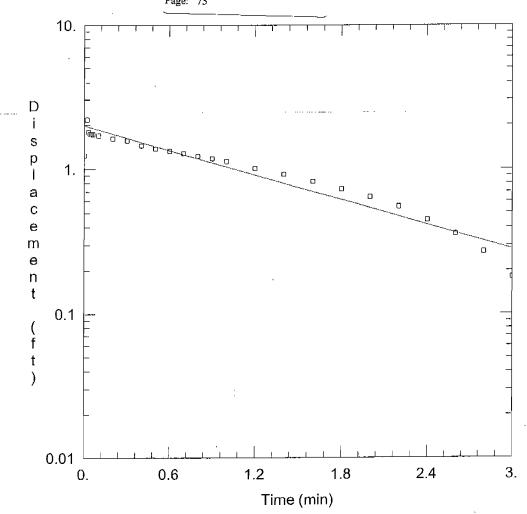
Aquifer Model: Unconfined

K = 2.952E-05 ft/min

Solution Method: Bouwer-Rice

y0 = 6.127 ft





TEST 17

Data Set: F:\Temp Work Folder\Projects\SC State Lead\aNNA'S VARIETY\Slugs\MW-3.aqt

Date: 04/12/05 Time: 14:17:18

PROJECT INFORMATION

Company: Geological Resources, Inc.

Client: Anna's Variety Shop

Project: 07775

Test Location: Walterboro, SC

Test Well: MW-3 Test Date: 03/23/05

AQUIFER DATA

Saturated Thickness: 10.45 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3)

Initial Displacement: 1.24 ft Wellbore Radius: 0.208 ft

Screen Length: 10. ft

Gravel Pack Porosity: 0.045

Casing Radius: 0.083 ft Well Skin Radius: 0.208 ft

Total Well Penetration Depth: 10.45 ft

SOLUTION

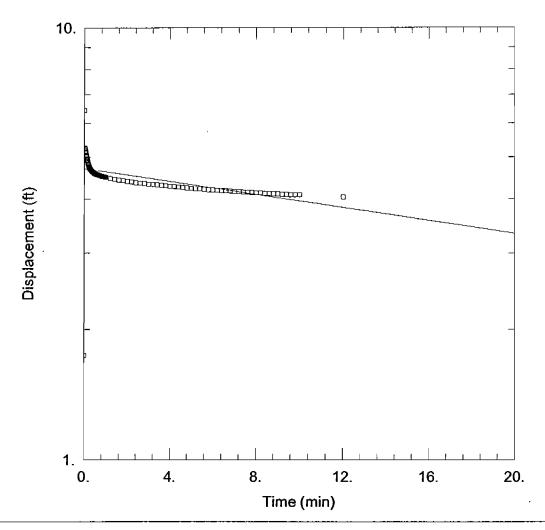
Aguifer Model: Unconfined

K = 0.0006702 ft/min

Solution Method: Bouwer-Rice

y0 = 1.982 ft

	• ₩ • !						
	TEST 16.	MW-1 R	ef # 1,14	TD =	\ (
	TIME	TIME.	TIME				
	11-0100 - 114.	0.11 6.04	<u>J.</u> øb.".	521		·	
	140.01 - 10.21	0.12- 6:03	200 -	5,63	Sat. Thick. =	9.86	
	110,02 - 8,45	DIE 10.03	<u> 3.00 -</u>	5,49	Juil, Disp. =		
	0.03 - 6.06	0.20 - 6.00			K= 2.95		
	80.01 - 10.08	0.30 - 5.97	5,00	- 5, 25	V=5,20 ×	10_1 ti/n	νįν
	10.05 - 6,07	0.40-5.95	6.00	<u> 5.14</u>	√= 7.50	×10-1 H	∫d:: (
	10,06 - 6.07	0.56 - 5.93		5 <u>03</u>	Y = 0,7	7. ft/yr.	I
	10.07-6.06	0.60 - 5.89		- 492			
	_ 40.0% + 6.00	0.70 - 5.87	9.00	5 - 481	***	1. 1. 1	
	11/17/2 6:05	0.70 5.85					
	110.10 - 6.04	0,90 - 5,85	.,,		.,		
	- 41						
	121 121						
	TEST 17	WM-3	Ref # 0.5	s TD	15 [(,		
	IIME	TIME	s.,				
	10,00 - 0.48						
	11 201 5 4,39-						· · · · · · · · · · · · · · · · · · ·
	1002 - 218	····· -· ··· ·· ·· ·· ·· ·· ··			CE 10145		
	7 <u> 1005 - 1179</u>			Tent Disp.	= 1.24	<i>f</i>	
	110.04 - 1.74	1:00 - 1:13			70 × 10-4 FG		
	0.09 1.74	1.20 - 1.01		V > 1/18	× 10 ++	/mia	
	14.	190-092			70× 10 ² f	:/day	
 .	1.76	1.bat D.RI	pr	V = 60	20A/y1.		
	0.20 1.62	1.80 - 0.73					
	JI030- 1.57	19.0 - 0.67	oranici, i posejo i se alias i se			,	
	JC46 - 1145		,) 				,
	1/2/sp 1/32	242 ° 045		-			
	0.60 - 1-3	1/1/20 7.0-20	2				
	110.79 - 1-25	7.10 - 0.2	7	· · · · - IFI	DHEC 3-31016-11/28/06-EN	1 W	·
	<u> </u>	3/2010/	S.,	Pa	ge: 76		
	1090 - Lux.	$U_{1} \wedge O_{1} = O_{1}$)5				



SLUG TEST MW-6 TEST #8

Data Set: F:\Temp Work Folder\Projects\SUPERB\Anna's Variety Shop\Slug Tests\MW-6.aqt

Date: 06/16/05

PROJECT INFORMATION

Time: 09:03:21

Company: Geological Resources, Inc.

Client: Anna's Variety Shop

Project: 17355

Test Location: Walterboro, SC

Test Well: <u>MW-6</u> Test Date: <u>06/01/05</u>

AQUIFER DATA

Saturated Thickness: 8.48 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6)

Initial Displacement: 1.74 ft Wellbore Radius: 0.208 ft

Screen Length: 10. ft

Gravel Pack Porosity: 0.045

Casing Radius: 0.083 ft Well Skin Radius: 0.208 ft

Total Well Penetration Depth: 8.48 ft

SOLUTION

IFB-31016-11/28/06-EMW

Page: 77

SCDHEC

Aquifer Model: Unconfined

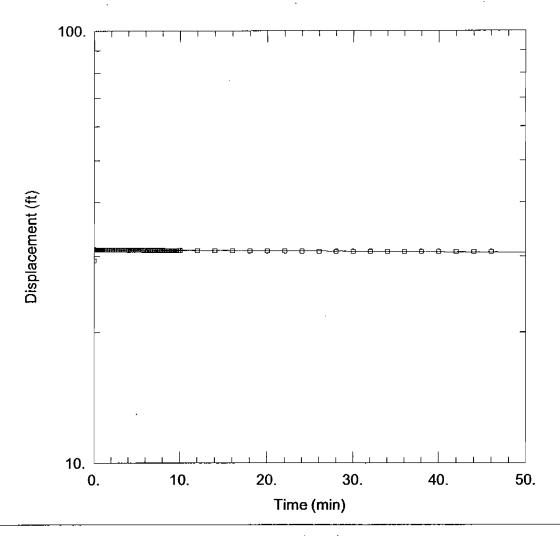
K = 1.698E-05 ft/min

Solution Method: <u>Bouwer-Rice</u>

y0 = 4.704 ft

i	ĮĮ.				
	Anno	ús Vaviet	y Shop - Te	sf#8 MW-6 Ref#=3,52TD=12	
1	10.00	644	0.16 4.87	0.32 466 0.58 4.55	
7	0.01	- 7:48-	0.17 4.85	0.33 4.65 0.60 4.55	
X	0.02	5.26	019 4.83	0.35 464 0.61 4.55	
į	0.03	5, 25	0.19 4.81	0.36 463 063 455	
-	0.04	<i>5</i> , 23	0.20 4,79	0.37 462 0.65 4.54	
	0.05	5.18	0.21 4,77	0.40 4.62 0.66 454	
	0.06	5,1 5	0.22 4.76	0,41 4.61 0.61 4.74	
	0.07	5,(2.	0.73 4.74	0,43 4,60 0.70 4.53	
	p.08	5.07	0.24 4.73	0.45 4.59 0.71 4.53	
ļ	0.09	5,05	0.25 4,71	046 4.59 0.73 4.53	
	0.10	5.03	0.26 4.70	0.48 459 0.75 4.53	
∦	0.11	5.00	aza 4.69	0,50 4.58 0.76 4.52	
	0.12	4.97	0.28 4.69	0.51 4.57 0.78 452	
	0.13	4.94	0.79 4.68	0.53 4.57 0.80 4.52	
	0.14	4.97	0.30 4.67	0.55 4.56 0.11 4.51	
Щ	Q:IS	4.90	031 4,67	O.S6 436 0.83 4.21	
\parallel					
4	J.85	4.51	220 4.38	5.20 4.22 8.20 4,13	
	5) &P	4.So	2.40 4.36	5.40 4.22 8.40 4.12	
	78C	4.50	2,60 4.35	5.60 4.21 6.00 4.12	
	०१८	4.50	2.10 4.34	5.80 4.20 8.80 4.11	
111	0,91	4.50	3.00 4.32	6.00 4.20 9.00 4.11	
Ш	293	4.50	3.20 4.32	6.20 4.19 9.20 4.10	
Ħ	0.95	4.49	340 4.31		
Ш	0.96	4.49	3,60 4.30		
m),48	4.49	3.80 4.29	6.80 4.17 9.80 4.09	
M	,00	4.49	4.00 4.28	7,00 4.16 /0.00 409	
H	:20	4,46	4.20 4.27	7,20 4.16 12,00 4.04	
и	40	4.44	4,40 4.26	7.40 4.15 Init. Disp. = 1.774	
Ш	60	£42.	4.60 4.25		
Ш	180	18.81	4.80 4.24	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2	5.00	4,39	5,00 4.73	8.00 4.13 V= 8.5 x 10-7 ft/min	
				V= 1.22 × 10-3 ft/day	
				V= 0.45 F1/yn	
!/				·u	

۱٥



TW-1 SLUG TEST # 11

Data Set: F:\Temp Work Folder\Projects\SUPERB\Anna's Variety Shop\Slug Tests\TW-1.aqt

Date: 06/16/05

Time: <u>08:59:49</u>

PROJECT INFORMATION

Company: Geological Resources, Inc.

Client: Anna's Variety Shop

Project: 17355

Test Location: Walterboro, SC

Test Well: <u>TW-1</u> Test Date: <u>06/13/05</u>

AQUIFER DATA

Saturated Thickness: 7.64 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (TW-1)

Initial Displacement: 1.73 ft Wellbore Radius: 0.208 ft

Screen Length: 5. ft

Gravel Pack Porosity: 0.045

Casing Radius: 0.083 ft Well Skin Radius: 0.208 ft

Total Well Penetration Depth: 7.64 ft

SCDHEC

IFB-31016-11/28/06-EMW

Page: 79

SOLUTION

Aguifer Model: Unconfined

K = 5.444E-07 ft/min

Solution Method: Bouwer-Rice

y0 = 31.07 ft

Anna's Jariety - TWI Test # 11 Ref # 29.36 TD = 37

Libert				•	
1	0.00	79 5h	0.26 31.09	06/31/07	D.98 3106 600 30.98
	Oc:	30.64	0.27 31.09	0.62	1.00 31.06 620
	9.02	- 30-6 5	0.28 3609	0.63	1.50 31.05 640 V
	Da3	31.12	0.79 \$1.09	265	(.40 3(.05 660 30,97
	DUY	31.(3	035 3109	0.00	1.50 31.04 6.70
-	0.05	3(43	0.31 31.09	0.68	1.80 3(04 7:05)
	0.06	36.12	0.32	0.70	2,00 31.04 7.20
	רסום	31.11	6.23	671	7.20 31,03 7,40 30,96
	008	31.(2	G35	072	240 3103 760
Part Marie	ll an	31.1(0-6k	0.73	2.60 31.02 7.80
***************************************		364	0.38	0.75	770 31.02 8100 V
Section Contraction of the Contr	0.0	3i.13	0,40 31.08	076	200 31.02 8.20 30.95
AND COMPANY OF THE PERSON NAMED IN	0.42	3UO	241	০.7গু	31.02 840
- CH - D-CO-1		31/15	0.42	0.70	340 31.01 8.60
	by	što	0.43	0.81	3.60 3101 8.80
	0.15	31,10	0.45	0.82	3/20 31,01 9.00
	0.16		046	083	400, 31,00 9,20
	0.17		0.48	0.85	4.20 31,00 9.40 V
100000000000000000000000000000000000000	018		0.50	0.76	440 31.00 960 30.94
	0.19	31110	05	0-88	460 31:00 9:10
60 mg	0.70	21.6	0.52	0.99 31.06	400 3100 1000 V
A Common of the	10.71		as3 V	081	5.05 30.99 12.00 30.92
	D20		0.55, 31,07	092	526 30.99 14.00 30.90
	בי כו		0.56	093	5.40 30.99 16.00 30.88
	10.34	_	0.58	608	5.60 30.99 18.00 30.86
	0.75	•	0.60	0.96	580 30.98 20.00 30.84
		. •	SCDHEC		

IFB-31016-11/28/06-EMW Page: 80